

# TEAC®

## SERVICE MANUAL

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# EU-34TB

34 cm CTV

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# CONTENTS

Contents .....	1
Safety Precautions .....	2
TV Set switched off .....	2
Measurements .....	2
PERI-TV SOCKET .....	2
SCART 1 .....	2
INTRODUCTION .....	2
SMALL SIGNAL PART WITH TDA884X .....	2-3
TUNER .....	4
SOUND OUTPUT STAGE TDA2614 .....	4
VERTICAL OUTPUT STAGE WITH TDA8356 .....	4
VIDEO OUTPUT AMPLIFIER TDA6107Q .....	4
POWER SUPPLY (SMPS) .....	4
MICROCONTROLLER SDA545X .....	5
SERIAL ACCESS CMOS 8K (1024*8) EEPROM ST24C08 .....	5
SAW FILTERS .....	5
IC DESCRIPTIONS AND INTERNAL BLOCK DIAGRAM .....	5
TDA8840/TDA8842 .....	5-6
UV1316/UV1336 .....	7
TDA2614 .....	7-8
TDA8356 .....	8
TDA6107Q .....	8
MC44604 .....	9
SDA545X .....	9-11
ST24C08 .....	11
G1965M .....	11
AK26 CHASSIS MANUAL ADJUSTMENT PROCEDURE .....	11
For Adjust Settings .....	11
WHITE BALANCE ADJUSTMENT .....	11
AGC ADJUSTMENT .....	11
IF-PLL NEGATIVE ADJUSTMENT .....	12
4 : 3 HORIZONTAL SHIFT ADJUSTMENT .....	12
4 : 3 VERTICAL SLOPE ADJUSTMENT .....	12
4 : 3 VERTICAL AMPLITUDE ADJUSTMENT .....	12
4 : 3 S-CORRECTION ADJUSTMENT .....	12
4 : 3 VERTICAL SHIFT ADJUSTMENT .....	12
For Option Settings .....	12
OPTION 00 .....	12-13
OPTION 01 .....	13-14
OPTION 02 .....	13
OPTION 03 .....	14
OPTION 04 .....	14
OPTION 05 .....	14
OPTION 06 .....	14
OPTION 07 .....	15
GENERAL BLOCK DIAGRAM OF CHASSIS AK26 .....	16
ELECTRONIC COMPONENT PART LIST .....	17-18

## DO NOT CHANGE ANY MODULE UNLESS THE SET IS SWITCH OFF

The mains supply side of the switch mode power supply transformer is live.

Use an isolating transformer.

The receivers fulfill completely the safety requirements.

### Safety precautions:

Servicing of this TV should only be carried out by a qualified person.

- Components marked with the warning symbol on the circuit diagram are critical for safety and must only be replaced with an identical component.
- Power resistor and fusible resistors must be mounted in an identical manner to the original component.
- When servicing this TV, check that the EHT does not exceed 26kV.

### TV Set switched off:

Make short-circuit between HV-CRT clip and CRT ground layer.

Short C804 (150mF) before changing IC802 or other components in primary side of SMPS.

### Measurements:

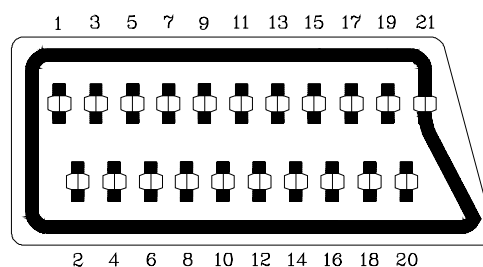
Voltage readings and oscilloscope traces are measured under following conditions.

Antenna signal 60dB from colourbar generator. (100% white, 75% colour saturation)

Brightness, contrast, colour set for a normal picture.

Mains supply, 110VAC, 60Hz.

## PERI-TV SOCKET



### SCART 1 (SC050)

1	Audio right output	0.5Vrms / 1K
2	Audio right input	0.5Vrms / 10K
3	Audio left output	0.5Vrms / 1K
4	Ground AF	
5	Ground Blue	
6	Audio left input	0.5Vrms / 10K
7	Blue input	0.7Vpp / 75ohm
8	AV switching input	0-12VDC /10K
9	Ground Green	
10	-	
11	Green input	0.7Vpp / 75ohm
12	-	
13	Ground Red	
14	Ground Blanking	
15	Red input	0.7Vpp / 75ohm
16	Blanking input	0-0.4VDC, 1-3VDC / 75ohm
17	Ground CVS output	
18	Ground CVS input	
19	CVS output	1Vpp / 75ohm
20	CVS input	1Vpp / 75ohm
21	Ground	

## 1. INTRODUCTION

11AK26 is a 90ø chassis capable of driving 14" tubes at appropriate currents.

The chassis is capable of working in PAL M, PAL N, PAL B/G and NTSC M. The sound system is capable of giving 2.5 watts RMS output into a load of 16 ohms.

## 2. SMALL SIGNAL PART WITH TDA884X

The TDA8840/8842/8844 combine all small signal functions required for a colour TV receiver, except tuning.

### 2.1. Vision IF amplifier

The IF-amplifier contains 3 AC-coupled control stages with a total gain control range which is higher than 66dB.

The sensitivity of the circuit is comparable with that of modern IF-IC's. The video signal is demodulated by means of a PLL carrier regenerator. This circuit contains a frequency detector and a phase detector. The AFC output is obtained by using the VCO control voltage of the PLL and can be read via the I<sup>2</sup>C-bus. For fast search tuning systems the window of the AFC can be increased with a factor 3. The setting is realised with the AFW bit.

Depending on the type the AGC-detector operates on top-sync level (single standard versions) or on top sync and top white-level (multi standard versions). The demodulation polarity is switched via the I<sup>2</sup>C-bus. The AGC detector time-constant capacitor is connected externally. This mainly because of the flexibility of the application. The time-constant of the AGC system during positive

modulation is rather long to avoid visible variations of the signal amplitude. To improve the speed of the AGC system a circuit has been included which detects whether the AGC detector is activated every frame period. When during 3 frame periods no action is detected the speed of the system is increased. For signals without peak white information the system switches automatically to a gated black level AGC. Because a black level clamp pulse is required for this way of operation the circuit will only switch to black level AGC in the internal mode.

The circuits contain a video identification circuit which is independent of the synchronisation circuit. Therefore search tuning is possible when the display section of the receiver is used as a monitor. The ident output is supplied to the tuning system via the I<sup>2</sup>C-bus. The video ident circuit can be made less sensitive by means of the STM bit. This mode can be used during search tuning

to avoid that the tuning system will stop at very weak input signals.

## 2.2. Video Switches

The circuits have two CVBS inputs (internal and external CVBS) and Y/C input. When the Y/C input is not required the Y input can be used as third CVBS input. The selection of the various sources is made via the I<sup>2</sup>C-bus. The circuit has one CVBS output.

## 2.3. Sound Circuit

The sound band pass and trap filters have to be connected externally. The filtered intercarrier signal is fed to a limiter circuit and is demodulated by means of a PLL demodulator. This PLL circuit tunes itself automatically to the incoming carrier signal so that no adjustment is required.

The volume is controlled via the I<sup>2</sup>C-bus. The deemphasis capacitor has to be connected externally. The non-controlled audio signal can be obtained from this pin. The FM demodulator can be muted via the I<sup>2</sup>C-bus. This function can be used to switch-off the sound during a channel change so that high output peaks are prevented. The TDA8840/8842 contain an automatic volume levelling (AVL) circuit which automatically stabilises the audio output signal to a certain level which can be set by the viewer by means of the volume control. This function prevents big audio output fluctuations due to variations of the modulation depth of the transmitter. The AVL function can be activated via the I<sup>2</sup>C-bus.

## 2.4. Synchronisation circuit

The sync separator is preceded by a controlled amplifier which adjusts the sync pulse amplitude to a fixed level. These pulses are fed to the slicing stage which is operating at 50% of the amplitude. The separated sync pulses are fed to the first phase detector and to the coincidence detector. This coincidence detector is used to detect whether the line oscillator is synchronised and can also be used for transmitter identification. The first PLL has a very high statical steepness so that the phase of the picture is independent of the line frequency.

The horizontal output signal is generated by means of an oscillator which is running at twice the line frequency. Its frequency is divided by 2 to lock the first control loop to the incoming signal. The time-constant of the loop can be forced by the I<sup>2</sup>C-bus (fast or slow). If required the IC can select the time-constant depending on the noise content of the incoming video signal.

To protect the horizontal output transistor, the horizontal drive is immediately switched off when a power-on-reset is detected.

The drive signal is switched-on again when the normal switch-on procedure is followed.

Via the I<sup>2</sup>C-bus, adjustments can be made of the horizontal and vertical geometry. The vertical sawtooth generator drives the vertical output drive circuit which has a differential output current. For the EW drive a single ended current output is available.

When the horizontal scan is reduced to display 4 : 3 pictures on a 16 : 9 picture tube an accurate video blanking can be switched on to obtain well defined edges on the screen.

Overvoltage conditions can be detected via the EHT tracking pin. When an overvoltage condition is detected the horizontal output drive signal will be switched-off via the slow stop procedure but it is also possible that the drive is not switched-off and that just a protection indication is given in the I<sup>2</sup>C-bus output byte. The choice is made via the input bit PRD.

## 2.5. Chroma and Luminance processing

The circuits contain a chroma bandpass and trap circuit. The filters are realised by means of gyrator circuits and they are automatically calibrated by comparing the tuning frequency with the X-tal frequency of the decoder.

The luminance delay line and the delay for the peaking circuit are also realised by means of gyrator circuits.

The centre frequency of the chroma bandpass filter is switchable via the I<sup>2</sup>C-bus so that the performance can be optimised for "front-end" signals and external CVBS signals.

During SECAM reception the centre frequency of the chroma trap is reduced to get a better suppression of the SECAM carrier frequencies.

## 2.6. Colour Decoder

The decoder contains an alignment-free X-tal oscillator, a killer circuit and two colour difference demodulators. The 90° phaseshift for the reference signal is made internally.

The IC contains an automatic colour limiting (ACL) circuit which prevents that oversaturation occurs when signals with a high chroma-to-burst ratio are received. The ACL circuit is designed such that it only reduces the chroma signal and not the burst signal. This has the advantage that the colour sensitivity is not affected by this function.

The base-band delay line is integrated in the PAL/SECAM IC's.

The demodulated colour difference signals are internally supplied to the delay line. The matrixed signals are externally available.

The colour difference matrix switches automatically between

PAL/SECAM and NTSC, however, it is also possible to fix the matrix in the PAL standard.

Which colour standard the IC can decode depends on the external X-tals. The X-tal to be connected to pin 34 must have a frequency of 3.5 MHz (NTSC-M, PAL-M or PAL-N) and pin 35 can handle X-tals with a frequency of 4.4 and 3.5 MHz. To prevent calibration problems of the horizontal oscillator the external switching between the 2 X-tals should be carried out when the oscillator is forced to pin 35. For a reliable calibration of the horizontal oscillator it is very important that the X-tal indication bits (XA and XB) are not corrupted. For this reason the X-tal bits can be read in the output bytes so that the software can check the I<sup>2</sup>C-bus transmission.

## 2.7. RGB output circuit and black-current stabilisation

The colour-difference signals are matrixed with the luminance signal to obtain the RGB-signals. The TDA 884X device has one linear RGB input. This RGB signal can be controlled on contrast and brightness.

The output signal has an amplitude of about 2 volts black-to-white at nominal input signals and nominal settings of the controls.

To increase the flexibility of the IC it is possible to insert OSD and/or teletext signals directly at the RGB outputs.

This insertion mode is controlled via the insertion input (pin 26 in the S-DIP 56- and pin 38 in the QFP-64 level). This blanking action at the RGB outputs has some delay which must be compensated externally.

To obtain an accurate biasing of the picture tube a "Continuous Cathode Calibration" circuit has been developed.

This function is realised by means of a 2-point black level stabilisation circuit.

When the TV receiver is switched-on, the RGB output signals are blanked and the black current loop will try to set the right picture tube bias levels. Via the AST bit a choice can be made between automatic start-up or a start-up via the m-processor.

### 3. TUNER

Either a PLL or a VST tuner is used as a tuner.

UV1336 (VHF/UHF) is used as a PLL tuner. For only PAL B/G applications UV 1316 is used as the PLL tuner.

#### Channel coverage of UV1316:

BAND	OFF-AIR CHANNELS		CABLE CHANNELS	
	CHANNELS RANGE (MHz)	FREQUENCY	CHANNELS	FREQUENCY RANGE (MHz)
Low Band	E2 to C	48.25 to 82.25 (1)	S01 to S08	69.25 to 154.25
Mid Band	E5 to E12	175.25 to 224.25	S09 to S38	161.25 to 439.25
High Band	E21 to E69	471.25 to 855.25 (2)	S39 to S41	447.25 to 463.25

(1). Enough margin is available to tune down to 45.25 MHz.

(2). Enough margin is available to tune up to 863.25 MHz.

Noise	Typical	Max.	Gain	Min.	Typical	Max.
Low band	: 5dB	9dB	All channels	: 38dB	44dB	52dB
Mid band	: 5dB	9dB	Gain Taper (of-air channels)	: -	-	8dB
High band	: 6dB	9dB				

#### Channel Coverage UV1336:

BAND	CHANNELS	FREQUENCY RANGE (MHz)
Low Band	2 to D	55.25 to 139.25
Mid Band	E to PP	145.25 to 391.25
High Band	QQ to 69	397.25 to 801.25

Noise is typically 6dB for all channels. Gain is minimum 38dB and maximum 50dB for all channels.

### 4. SOUND OUTPUT STAGE TDA2614

TDA2614 is used as the AF output amplifier for mono applications. It is supplied by  $\pm 12$ VDC coming from a separate winding in the SMPS transformer. An output power of 2.5W (THD=0.5%) can be delivered into an 16 ohm load.

### 5. VERTICAL OUTPUT STAGE WITH TDA 8356

The TDA 8356 vertical deflection circuit is used in 90° deflection systems with field frequencies from 50 up to 120Hz. With its bridge configuration the deflection output can be DC coupled with few external components. Only a single supply voltage for the scan and a second supply for the flyback are needed.

The drive voltage is amplified by an amplifier and fed to two amplifiers, one is inverting and the other is a non inverting amplifier. The outputs (pins 7 and 4) are connected to the series connection of the vertical deflection coil and feedback resistor Rsense (R702//R703). The voltage across Rsense is fed via pin 9 to correction amplifier, to obtain a deflection current which is proportional to the drive voltage. The supply voltage for the TDA 8356 is 15VDC at pin 3. The supply voltage generator has a separate supply voltage of 45VDC at pin 6.

### 6. VIDEO OUTPUT AMPLIFIER TDA6107Q

The TDA6107Q consists of three monolithic video output amplifiers. The amplifier can be seen as an operational amplifier with negative feedback.

The advantage of negative feedback is that the amplifier characteristics do not play an important role up to certain frequencies. The internal flash diodes protect the amplifiers against flash over in the picture tube.

The only protections required at the cathode outputs are a flash resistor and a sparkgap.

The TDA6107Q has an internal thermal protection circuit which gives a decrease of the slew rate at high temperatures.

Furthermore, the device needs only one power supply voltage (Vdd).

In contrast to previous types of DMOS video amplifiers, all the external resistors (Rf, Ri and Ra) are integrated, so the gain is fixed and saves 9 resistors.

Furthermore, the reference voltage is integrated, it saves a resistor divider and a decoupling capacitor. So, the replacement value of the TDA6107Q is very high.

The TDA6107Q is provided with a black current data pin. Since TDA884X is used as drive device, no adjustments are required for gain and black setting, as the TDA884X has I<sup>2</sup>C white point adjustment and black current set-up.

### 7. POWER SUPPLY (SMPS)

The DC voltages required at various parts of the chassis are provided by an SMPS transformer controlled by the IC MC44604 which is designed for driving, controlling and protecting switching transistor of SMPS. The transformer produces 150/115V for FBT input,  $\pm 14$ V for audio output IC, S+5V for microcontroller, +15V for vertical output (field scan) and +33V for tuner and some other ICs and transistors.

## 8. MICROCONTROLLER SDA545X

The device is a control system based on the SDA 545X TV microcontroller. It is designed for a low cost mono TV-SET with analogue picture and sound control. Nevertheless the system offers an on screen display (OSD) and IR remote control of all functions.

### SDA545X has the following features:

- Display of program number, channel number, TV standard, analogue values, sleep timer, parental control, and mute is done by OSD.
- Single LED for IR active, standby and on mode indication.
- 1 Control line to select external source.
- 3 Control lines for TV standard selection.
- Frequency synthesis tuning (62.5 kHz steps)
- 192 step fine tuning
- Channels corresponding to standards PAL M/N NTSC M
- Mono sound control by analogue voltage
- System configuration with service mode

## 9. SERIAL ACCESS CMOS 8K (1024\*8) EEPROM ST24C08

The ST24C08 is a 8Kbit electrically erasable programmable memory (EEPROM), organised as 4 blocks of 256\*8 bits.

The memory is compatible with the I<sup>2</sup>C standard, two wire serial interface which uses a bi-directional data bus and serial clock.

The memory carries a built-in 4 bit, unique device identification code (1010) corresponding to the I<sup>2</sup>C bus definition.

This is used together with 1 chip enable input (E) so that up to 2\*8K devices may be attached to the I<sup>2</sup>C bus and selected individually.

## 10. SAW FILTERS

**Saw filter type : Model:**

<b>G1965M</b>	: PAL-SECAM B/G MONO
<b>K2955M</b>	: PAL-SECAM B/G-D/K MONO, PAL-SECAM B/G-D/K-I', MONO, PAL-SECAM B/G-D/K-L MONO
<b>K2958M</b>	: PAL-SECAM B/G-D/K (38) MONO
<b>K2962M</b>	: PAL-SECAM B/G-L/L' MONO
<b>K6259K</b>	: PAL-SECAM B/G-D/K-I-M/N (EURO) MONO
<b>M1963M</b>	: PAL M/N MONO, NTSC M MONO, PAL M/N-NTSC M MONO

## IC DESCRIPTIONS AND INTERNAL BLOCK DIAGRAM

- TDA8840/8842/8844
- TUNER (UV1316, UV1336)
- TDA2614
- TDA8356
- TDA6107Q
- MC44604
- SDA545X
- ST24C08

## TDA8840/8842:

The TDA884X is I<sup>2</sup>C-bus controlled single chip TV processor which is intended to be applied in PAL, NTSC, PAL/NTSC and multi-standard television receivers. These IC's are nearly pin compatible with the TDA837X TV processors but have a higher degree of integration because the delay line (TDA4665 function) and the SECAM decoder have been integrated. In addition to these functions some additional features have been added like "Continuous Cathode Calibration" (2-point black current loop which results in an accurate biasing of the 3 guns), adjustable luminance delay time, blue stretching and dynamic skin tone control.

### Features:

- Vision IF circuit with PLL demodulator
- Alignment-free multi-standard FM sound demodulator (4.5 MHz to 6.5 MHz)
- Audio switch
- Flexible source selection with CVBS switch and Y(CVBS)/C input so that a comb filter can be applied
- Integrated chrominance trap circuit
- Integrated luminance delay line
- Asymmetrical peaking in the luminance channel with a noise coring function
- Black stretching of non-standard CVBS or luminance signals
- Integrated chroma band-pass filter with switchable center frequency
- Blue stretch circuit which offsets colours near white towards blue
- RGB control circuit with "Continuous Cathode Calibration" and white point adjustment
- Linear RGB inputs and fast blanking
- Possibility to insert a "blue black" option when no video signal is available
- Horizontal synchronisation with two control loops and alignment-free horizontal oscillator
- Vertical count-down circuit
- Vertical driver optimised for DC-coupled vertical output stages
- I<sup>2</sup>C-bus control of various functions
- Low dissipation (850 mW)

Functional Differences between 8840 and 8842

IC VERSION (TDA)	8840	8842
Multi-standard IF		X
Automatic Volume Limiting	X	X
PAL Decoder	X	X
SECAM Decoder		X
NTSC Decoder		X
Dynamic Skin Control		
Colour Matrix PAL/NTSC (Japan)		X
Colour Matrix NTSC Japan/USA		
YUV interface		
Base-band delay line	X	X
Vertical zoom	X	X

#### PINNING

PINNING	PIN VALUE
1. Sound IF input	: 1mVrms
2. External audio input	: 500mVrms
3. IF demodulator tuned circuit 1	
4. IF demodulator tuned circuit 2	
5. IF-PLL loop filter	: Min:32-Max:60 MHz
6. IF video output	: 4.7V (Negative Modulation), 2V (Positive Modulation)
7. Serial clock input	: Low level max:1.5 V, High level min 3.5V
8. Serial data input/output	: Low level max:1.5 V, High level min 3.5V
9. Bandgap decoupling	
10. Chrominance input (S-VHS)	: 1Vpp, Max:1.4Vpp
11. External CVBS/Y input	: 1Vpp, Max:1.4Vpp
12. Main supply voltage 1	: 8V, Min:7.2V, Max:8.8V
13. Internal CVBS input	: 1Vpp, Max:1.4Vpp
14. Ground 1	
15. Audio output	: 700mVrms, Min:500mVrms, Max:900mVrms
16. SECAM PLL decoupling	
17. External CVBS input	: Vpp, Max:1.4Vpp
18. Black-current input	: Amplitude of "low" reference current : 8mA Amplitude of "high" reference current : 20mA
19. Blue output	: 2Vpp
20. Green output	: 2Vpp
21. Red output	: 2Vpp
22. Beam current limiter input/V-guard input	
23. Red input for insertion	: 0.7Vpp, Max:0.8Vpp
24. Green input for insertion	: 0.7Vpp, Max:0.8Vpp
25. Blue input for insertion	: 0.7Vpp, Max:0.8Vpp
26. RGB insertion input	: Max:0.3V
27. Luminance input	: 1.4Vpp
28. Luminance output	: 1.4Vpp
29. (B-Y) signal output	: 1.05Vpp
30. (R-Y) signal output	: 1.05Vpp
31. (B-Y) signal input	: 1.05Vpp
32. (R-Y) signal input	: 1.05Vpp
33. Subcarrier reference output	: 3.58/4.43 MHz
34. 3.58 MHz crystal connection	
35. 4.43/3.58 MHz crystal connection	
36. Loop filter phase detector	
37. 2nd supply voltage 1	: 8V, Min:7.2V, Max:8.8V
38. CVBS output	: 1Vpp, Max:1.4Vpp
39. Decoupling digital supply	: 1.8V
40. Horizontal output	: Max: 0.3V
41. Flyback input/sandcastle output	: Min:100ma, Max:300mA
42. Phase-2 filter	: 150 ms/ms
43. Phase-1 filter	: ±0.9 kHz, Max: ±1.2 kHz
44. Ground 2	
45. East-west drive output	
46. Vertical drive A output	: 0.95mA
47. Vertical drive B output	: 0.95mA
48. IF input 1	
49. IF input 2	
50. EHT/overvoltage protection input	: Min:1.2V, Max : 2.8V
51. Vertical sawtooth capacitor	: 3Vpp
52. Reference current input	: 3Vpp
53. AGC decoupling capacitor	
54. Tuner AGC output	: Max:9V (Maximum tuner AGC output voltage), 300mV (Output saturation voltage)
55. Audio deemphasis	: 500mVrms
56. Decoupling sound demodulator	

## UV1316, UV1336

### General description of UV1316:

The UV1316 tuner belongs to the UV 1300 family of tuners, which are designed to meet a wide range of applications. It is a combined VHF, UHF tuner suitable for CCIR systems B/G, H, L, L', I and I'. The low IF output impedance has been designed for direct drive of a wide variety of SAW filters with sufficient suppression of triple transient.

### Features of UV1316:

- Member of the UV1300 family small sized UHF/VHF tuners
- Systems CCIR: B/G, H, L, L', I and I'; OIRT: D/K
- Digitally controlled (PLL) tuning via I<sup>2</sup>C-bus
- Off-air channels, S-cable channels and Hyperband
- World standardized mechanical dimensions and world standard pinning
- Compact size
- Complies to "CENELEC EN55020" and "EN55013"

PINNING	PIN VALUE
1. Gain control voltage (AGC)	: 4.0V, Max:4.5V
2. Tuning voltage	
3. I <sup>2</sup> C-bus address select	: Max:5.5V
4. I <sup>2</sup> C-bus serial clock	: Min:-0.3V, Max:5.5V
5. I <sup>2</sup> C-bus serial data	: Min:-0.3V, Max:5.5V
6. Not connected	
7. PLL supply voltage	: 5.0V, Min:4.75V, Max:5.5V
8. ADC input	
9. Tuner supply voltage	: 33V, Min:30V, Max:35V
10. Symmetrical IF output 1	
11. Symmetrical IF output 2	

### General description of UV1336:

UV1336 series is developed for reception of channels broadcast in accordance with the M, N standard. The tuning is available through built-in digitally controlled I<sup>2</sup>C bus (PLL).

### Features of UV1336:

- Global standard pinning
- Integrated Mixer-Oscillator&PLL function
- Conforms to CISPR 13, FCC and DOC (Canada) regulations
- Low power consumption
- Both Phono connector and 'F' connector are available

PINNING	PIN VALUE
1. Gain control voltage	: 4.0V, Max:4.5V
2. Tuning voltage	
3. Address select	: Max:5.5V
4. Serial clock	: Min:-0.3V, Max:5.5V
5. Serial data	: Min:-0.3V, Max:5.5V
6. Not connected	
7. Supply voltage	: 5.0V, Min:4.75V, Max:5.5V
8. ADC input (optional)	
9. Tuning supply voltage	: 33V, Min:30V, Max:35V
10. Ground	
11. IF output	

## TDA2614:

### General Description of TDA2614:

The TDA2614 is a power amplifier in a 9-lead single-in-line (SIL9) plastic medium power package. It has been especially designed for mains fed applications.

### Features:

- Requires very few external components
- No switch-on/switch-off clicks
- Input mute during switch-on and switch-off
- Low offset voltage between output and ground
- Hi-fi in accordance with IEC 268 and DIN 45500
- Short-circuit proof and thermal protected
- Mute possibility

PINNING	PIN VALUE
1. Not connected	
2. Mute input	: 300mA (For mute to activate)
3. Ground	
4. Not connected	
5. Supply voltage (negative)	: -12VDC
6. Output	: 6.9Vrms
7. Supply voltage (positive)	: +12VDC
8. Inverting input (Ground)	: 0V
9. Non-inverting input	: 700mVrms, Min : 500mVrms, Max : 900mVrms



## TDA8356:

### General Description:

The TDA8356 is a power circuit for use in 90° colour deflection system for field frequencies of 50 to 120 Hz. The circuit operates as a highly efficient class G system.

### Features:

- Few external components
- Highly efficient fully DC-coupled vertical output bridge circuit
- Vertical flyback switch
- Guard circuit
- Protection against:
  - short-circuit of the output pins (7 and 4)
  - short-circuit of the output pins to Vp
- Temperature (thermal) protection
- High EMC immunity because of common mode inputs
- A guard signal in zoom mode

### PINNING

### PIN VALUE

- |  |  |
|--|--|
| 1. Input power-stage (positive); includes li(sb) signal bias | : 400mA, Min : 50mA, Max : 500mA                           |
| 2. Input power-stage (negative); includes li(sb) signal bias | : 400mA, Min : 50mA, Max : 500mA                           |
| 3. Operating supply voltage                                  | : +15VDC   |
| 4. Output voltage B  | : Max : 52V Output current : 2App (TDA8356) 3App (TDA8351) |
| 5. Ground  |  |
| 6. Input flyback supply voltage                              | : Min : Vp, Max : 50V                                      |
| 7. Output voltage A  | : Max : 52V Output current : 2App (TDA8356) 3App (TDA8351) |
| 8. Guard output voltage                                      | : Max:5.5V (Io:100mA)                                      |
| 9. Input feedback voltage                                    | : Max:52V  |

## TDA6107Q:

The TDA6107Q includes three video output amplifiers in a SIL 9 MP (Single In Line 9 pins Medium Power) package SOT111BE, using high-voltage DMOS technology, and is intended to drive the three cathodes of a colour picture tube.

In contrast to previous types of DMOS video amplifiers, all external resistors (Rf, Ri and Ra) are integrated, so the gain is fixed and it saves 9 resistors.

To obtain maximum performance, the amplifier should be used with black-current control and mounted on the CRT panel.

### Features:

- Bandwidth: 4.0 MHz typ at 100Vpp (Measured in application set-up, with Rfl=1K5 and Cl=Ctube+Cpcb=10pF)
- Slewrate: 950V/ms
- Fixed gain of 50 times
- No external components, only the well known supply decoupling
- Very simple application with a variety of colour decoders
- Black-current measurement output for automatic black current stabilization
- Only one supply voltage needed
- Internal protection against positive appearing CRT flash-over discharges
- Protection against ESD
- Internal reference voltage
- Thermal protection
- Controllable switch-off behaviour
- Very small PCB dimensions
- Very high replacement value

### PINNING

### PIN VALUE

- |                      |                |
|----------------------|----------------|
| 1. Inverting input 1 | : 2Vpp         |
| 2. Inverting input 2 | : 2Vpp         |
| 3. Inverting input 3 | : 2Vpp         |
| 4. Ground            |                |
| 5. BSC-output        | : Max:7V       |
| 6. Supply voltage    | : 200VDC       |
| 7. Cathode output 3  | : 20mA, 100Vpp |
| 8. Cathode output 2  | : 20mA, 100Vpp |
| 9. Cathode output 1  | : 20mA, 100Vpp |

## MC44604:

### General description:

The MC44604 is an enhanced high performance controller that is specifically designed for off-line and DC-to-DC converter applications. It offers a really safe and reliable power management thanks particularly to its protection features (foldback, overvoltage detection, soft start, accurate demagnetization detection). Its high current totem pole output is also ideally suited for driving a power MOSFET, but can also be used for driving a bipolar transistor in low power converters. In addition to these features, the MC44604 offers an efficient stand-by mode.

### Features:

#### Current Mode Controller

- Operation up to 250 kHz Output Switching Frequency
- Inherent Feed Forward Compensation
- Latching PWM for Cycle-by-Cycle Current Limiting
- Oscillator with Precise Frequency Control

## High Flexibility

- Externally Programmable Reference Current
- Secondary or Primary Sensing
- High Current Totem Pole Output
- Undervoltage Lockout with Hysteresis

## Safety/Protection Features

- Overvoltage Protection Facility against Open Loop
- Protection against Short Circuit on Oscillator Pin
- Fully Programmable Foldback
- Soft-Start Feature
- Accurate max Duty Cycle Setting
- Demagnetization (Zero Current Detection) Protection
- Internally Trimmed Reference

## “Green Controller”

- Low Start-Up and Operating Current
- Patented Stand-by Pulsed Mode for low stand-by losses
- Low dV/dT for Low EMI radiations

## PINNING

	PIN VALUE
1. Output Supply Voltage (Vcc)	: 12VDC
2. Output Supply Voltage (Vc)	: 12VDC
3. Output voltage	: LOW Level Drop Voltage 1VDC, Max : 1.2VDC (Isink=100mA) 1.4VDC, Max : 2VDC (Isink=500mA) HIGH Level Drop Voltage 1.5VDC, Max : 2VDC (Isource=200mA) 2VDC, Max : 2.7VDC (Isource=500mA)
4. Ground	
5. Foldback input	: 0.9VDC, Min:-0.3VDC, Max : Vcc+0.3VDC
6. Overvoltage protection (OVP)	: 0.78VDC, Min:-0.3VDC, Max : Vcc+0.3VDC
7. Current sense input	: Min:-0.3VDC, Max : Vcc+0.3VDC
8. Demagnetization detection input	: Idemag-ib (source):-4mA Idemag-ib (sink) : 10mA
9. Standby current set	: Ipeak-stby/Iref : 0.40 Min : 0.37 Max : 0.43
10. Oscillator voltage swing	: 2Vpp
11. Soft start/Dmax/Voltage mode	: Idischarge : 5mA, Min : 1.5mA (Vsoft start=1V)
12. Clamp E/A input	: 4.7VDC, Min : 4.5VDC Max : 4.9VDC
13. E/A output	: HIGH State: 6.5VDC, Min : 5.5VDC, Max : 7.5VDC LOW State : 1.0VDC, 1.1VDC
14. E/A input	: 2.5VDC, Min : 2.4VDC, Max : 2.6VDC
15. Stand-by management	: Stand-by On Detection current ratio : Idet/Iref : 0.38, Min : 0.34, Max : 0.42 Stand-by regulation current ratio : Ireg/Iref : 20.5, Min : 18, Max : 23
16. Rref input	: 2.5VDC, Min : 2.4VDC, Max : 2.6VDC

## SDA545X:

### General description:

The SDA545X is designed for a low cost mono TV-set with analogue picture and sound control. IN SDA545X the following IC' s are used and supported:

Non-volatile memory	: SDA 2526 or SDA2546
PLL	: SDA 3202-3, SDA 3302
IR transmitter	: SDA 2208-3 or SDA 2218
IR preamplifier	: SFH 506-32

### Features:

#### General:

- Display of program number, channel number, TV standard, analogue values, sleep timer, parental control, and mute is done by OSD
- Single LED for IR active, standby and on mode indication
- Local control (8 keys)
- IR remote control
- Control of volume, contrast, brightness, and saturation by analogue voltages
- Non-volatile memory for 50 or 100 programs, optimum analogue values and system parameters
- Individual delta volume for each program

- 1 control line to select external source
- 3 control lines for TV standard selection
- Automatic muting if no carrier detected
- Automatic switch-off when carrier disappears for more than 5 minutes
- Software protection against tube flashovers with internal watchdog timer
- Sleep timer
- Parental control
- IF 45.75 MHz or 38.9 MHz selectable

#### Tuning:

- Frequency synthesis tuning (62.5 kHz steps)
- 192 step fine tuning
- Channels corresponding to standards
- 100 programs selectable by directly entering a program number or by up/down function depending on the NVM size
- Channel selection by directly entering a channel number or by up/down function
- Channel search function in two directions

**Sound:**

- Mono sound control by analogue voltage

**Service Mode:**

- System configuration with service mode

**PINNING**

	<b>PIN VALUE</b>
1. Crystal selection output 1	: LOW level : 0V HIGH level : 4.2V
2. Volume + switch input	: LOW level : 0V HIGH level : 5V
3. Volume - switch input	: LOW level : 0V HIGH level : 5V
4. Program - switch input	: LOW level : 0V HIGH level : 5V
5. Program + switch input:	: LOW level : 0V HIGH level : 5V
6. LED output	: LOW level : 0V HIGH level : 4.2VDC
7. Filter (sound standard) selection output 1	: LOW level : 0V HIGH level : 4.2V
8. Filter (sound standard) selection output 2	: LOW level : 0V HIGH level : 4.2V
9. Mod-switch selection output	: LOW level : 0V HIGH level : 4.2V
10. Ground	
11. Supply voltage	: +5V
12. 6 MHz crystal connection 1	: 2Vpp
13. 6 MHz crystal connection 2	: 2Vpp
14. L-ACC output	: LOW level : 0V HIGH level : 3.6V
15. RESET output	: LOW level : 0V HIGH level : 5V
16. Comb filter PAL/SECAM selection output	: LOW level : 0V HIGH level : 5V
17. Tuning output	: LOW level : 0V HIGH level : 3.4V
18. Audio switch transistor selection 1	: LOW level : 0V HIGH level : 5V
19. Audio switch transistor selection 2	: LOW level : 0V HIGH level : 5V
20. Audio switch transistor selection 3	: LOW level : 0V HIGH level : 5V
21. Audio switch transistor selection 4	: LOW level : 0V HIGH level : 5V
22. Comb filter standard selection 1	: LOW level : 0V HIGH level : 5V
23. Comb filter standard selection 2	: LOW level : 0V HIGH level : 5V
24. Analogue ground	
25. Filter 3	
26. Filter 2	
27. Filter 1	
28. Analogue supply voltage	: 5VDC
29. Reference current input	
30. CVBS input	: 1Vpp
31. Service output	: LOW level : 0V HIGH level : 5V
32. AV2-status input	: LOW level : 0V HIGH level : 5V
33. AV1-status input	: LOW level : 0V HIGH level : 5V
34. AFC output	: 600mVpp
35. Ground	
36. IR-input	: LOW level : 0V HIGH level : 5V
37. Supply voltage	: 5V
38. LC input	: 5Vpp
39. LC output	: 5Vpp
40. Mute output	: LOW level : 0V HIGH level : 4.2V
41. St-by output	: LOW level : 0V / HIGH level : 1.4V
42. Clock signal output	
43. Data output	
44. Local connection	: LOW : 0V / HIGH : 5V
45. SAND input	: 4Vpp
46. ODD/EVEN output	: 1.8V
47. OSD-red output	: LOW level : 0V / HIGH level : 5V
48. OSD-green output	: LOW level : 0V / HIGH level : 5V
49. OSD-blue output	: LOW level : 0V / HIGH level : 5V
50. OSD-blanking output	: LOW level : 0V / HIGH level : 5V
51. COR output	: LOW level : 0V / HIGH level : 5V
52. Crystal selection output 2	: LOW level : 0V / HIGH level : 4.2V

## ST24C08:

### General description:

The ST24C08 is a 8Kbit electrically erasable programmable memory (EEPROM), organized as 4 blocks of 256 \* 8 bits. The memory operates with a power supply value as low as 2.5V. Both Plastic Dual-in-Line and Plastic Small Outline packages are available.

### Features:

- Minimum 1 million ERASE/WRITE cycles with over 10 years data retention
- Single supply voltage:4.5 to 5.5V
- Two wire serial interface, fully I<sup>2</sup>C-bus compatible
- Byte and Multibyte write (up to 8 bytes)
- Page write (up to 16 bytes)
- Byte, random and sequential read modes
- Self timed programming cycle

### PINNING

	PIN VALUE
1. Write protect enable (Ground)	: 0V
2. Not connected (Ground)	: 0V
3. Chip enable input (Ground)	: 0V
4. Ground	: 0V
5. Serial data address input/output	: Input LOW voltage : Min : -0.3V, Max : 0.3*Vcc Input HIGH voltage: Min : 0.7*Vcc, Max : Vcc+1
6. Serial clock	: Input LOW voltage : Min: -0.3V, Max : 0.3*Vcc Input HIGH voltage: Min : 0.7*Vcc, Max : Vcc+1
7. Multibyte/Page write mode	: Input LOW voltage : Min: -0.3V, Max :0.5V Input HIGH voltage: Min : Vcc-0.5, Max : Vcc+1
8. Supply voltage	: Min : 2.5V, Max : 5.5V

## G1965M:

### Features:

- TV IF filter with Nyquist slope and sound shelf at typ. 20.4dB
- High colour carrier level at typ. 1.0dB
- Constant group delay
- Insertion attenuation typ. 15.0dB

### PINNING

1. Input
2. Input-ground
3. Chip carrier-ground

# AK26 CHASSIS MANUAL ADJUSTMENTS PROCEDURE

In order to enter the service menu, first enter the feature menu and then press the digits 4, 7, 2 and 5 respectively.

For ADJUST settings:

Select **Adjust** using  $\nabla$  or  $\triangle$  button and press  $\triangleright$  or  $\triangleleft$  button to enter it. To select different adjust parameters, use  $\nabla$  or  $\triangle$  button. To change the selected parameter, use  $\triangleright$  or  $\triangleleft$  button.

## WHITE BALANCE ADJUSTMENT:

The following three parameters are used to make white balance adjustment. To do this, use a Colour Analyser. Using white point RED, white point GREEN and white point BLUE parameters, insert the + sign in the square which is in the middle of the screen.

**ADJUST 00** = White Point RED

**ADJUST 01** = White Point GREEN

**ADJUST 02** = White Point BLUE

## AGC ADJUSTMENT:

In order to do AGC adjustment, enter a 60dBmV RF signal level from channel C-12.

Connect a digital voltmeter to pin 1 of the tuner. Change the AGC parameter until you see 3.70VDC on voltmeter display. Check that picture is normal at 90dBmV signal level.

**ADJUST 03** = AGC

## IF-PLL NEGATIVE ADJUSTMENT (Only with PLL tuner):

Change the IF-PLL Negative parameter to 45 for NTSC M models, and change this parameter to 80 for PAL B/G models.

**ADJUST 04** = IF-PLL Negative

## 4:3 HORIZONTAL SHIFT ADJUSTMENT:

**ADJUST 10** = 4 : 3 Horizontal Shift

Enter a RED PURITY test pattern via RF. Change horizontal shift till the picture is horizontally centred. Check whether this adjustment is correct after completing Service Mode Adjustment.

## 4:3 VERTICAL SLOPE ADJUSTMENT:

**ADJUST 11** = 4 : 3 Vertical Slope

Enter a CROSS-HATCH NTSC M test pattern via RF. Change vertical slope till the size of squares on both the upper and lower part of test pattern become equal to the squares laying on the vertical centre of the test pattern. Check and readjust VERTICAL SLOPE item if the adjustment becomes improper after some other geometric adjustments are done.

## 4:3 VERTICAL AMPLITUDE ADJUSTMENT:

**ADJUST 12** = 4 : 3 Vertical Amplitude

Enter a NTSC M test pattern via RF. Change vertical slope till horizontal black lines on both the upper and lower part of the test pattern become very close to the upper and lower horizontal sides of picture tube and nearly about to disappear. Check and readjust VERTICAL AMPLITUDE item if the adjustment becomes improper after some other geometric adjustments are done.

## 4:3 S-CORRECTION ADJUSTMENT:

**ADJUST 13** = 4 : 3 S-Correction

Enter a NTSC M circle test pattern via RF. Change S-correction till the middle part of the circle is as round as possible.

## 4:3 VERTICAL SHIFT ADJUSTMENT:

**ADJUST 14** = 4 : 3 Vertical Shift

Enter a NTSC M test pattern via RF. Change Vertical Shift till the test pattern is vertically centred, i.e. horizontal line at the centre pattern is in equal distance both to upper and lower side of the picture tube. Check and readjust Vertical Shift item if the adjustment becomes improper after some other geometric adjustments are done.

For OPTION settings:

Select **Option** using  $\nabla$  or  $\triangle$  button and press  $\triangleright$  or  $\triangleleft$  button to enter it. To select different adjust parameters, use  $\nabla$  or  $\triangle$  button. To change the selected parameter, use  $\triangleright$  or  $\triangleleft$  button.

## OPTION 00

B7B6B5B4B3B2B1B0

B7 = Ina : X (**don' t care**)

B6 = Inb : X (**don' t care**)

B5 = Inc : X (**don' t care**)

B4 = Akb : 0 (**Auto Kine Biasing**, 1=disable black current stabilisation loop, 0=enable)

B3 = Foa : X (Note 1) (**don' t care**)

B2 = Fob : X (Note 1) (**don' t care**)

B1 = Xa : Note 2

B0 = Xb : Note 2

## Note 1:

FOA, FOB bits:  $\emptyset$ 1 time constant : These two bits determine the speed of the  $\emptyset$ 1-loop. It can be forced to slow and fast or set it in the automatic mode. In auto mode a noise detector circuit can switch to slow time constant, when the signal has too much noise.

FOA	FOB	Ø1-loop mode
0	0	Auto, Ø1-gating in slow mode (Note a)
0	1	Slow, always gating
1	0	Slow/fast depends on noise detector, always gating
1	1	Fast, no gating

**Note a:**

Not suitable for weak video recorder signals, because of active Ø1-gating in the slow mode. Use FOA, FOB=1,1 instead.

**Note 2:**

Xa, Xb

0,1 : PAL M, Pal N, NTSC M

Pin 34 : 3.58 (1, 2 or 3 crystals)

Pin 35 : No crystal

1,0 : PAL B/G, PAL D/K, Pal I/I+, SECAM B/G, SECAM D/K, SECAM L/L', SECAM K1

Pin 34 : No crystal

Pin 35 : 4.43 (1 Crystal)

1,1 : PAL B/G, PAL D/K, Pal I/I+, SECAM B/G, SECAM D/K, SECAM

L/L', SECAM K1, PAL M, PAL N, NTSC M

Pin 34 : 3.58 (1, 2 or 3 Crystals)

Pin 35 : 4.43 (1 Crystal)

**OPTION 01**

B7B6B5B4B3B2B1B0

B7 = Forf : 0 (Note 1)

B6 = Fors : 0 (Note 1)

B5 = DL : X (De-interlace: 0= Interlace, 1= De-interlace) (**don' t care**)

B4 = STB : X (Stand-by) (0= TDA884X in standby mode, 1= IC operational) (**don' t care**)

B3 = Poc : X (Synchronisation mode: 0=Synchronization active, 1=Synchronisation not active) (**don' t care**)

B2 = Cm2 : X (Note2) (**don' t care**)

B1 = Cm1 : X (Note2) (**don' t care**)

B0 = Cm0 : X (Note2) (**don' t care**)

**Note1:**

Forf, Fors bits: Forced field frequency: This forces the vertical divider in a 60 Hz mode or automatic. In auto mode it can be given a preference for 50 or 60 Hz or to keep the last detected field frequency.

FORF	FORS	Vertical Frequency
0	0	Auto, 60 Hz if not locked
0	1	60 Hz forced (Note b)
1	0	Auto, keep last detected frequency
1	1	Auto, 50 Hz if not locked

**Note b:** When already locked at 50 Hz, 60 Hz is forced after sync loss.

**Note2:**

Cm2, Cm1, Cm0 bits: Colour Decoder Mode: With these bits the automatic mode can be selected or the decoder can be forced to one of the standards. Xtal selection bits **XA** and **XB** should not be contradictory to a forced Xtal selection in the colour decoder mode (e.g. force pin 35 while there is only a Xtal on pin 34).

CM2	CM1	CM0	Colour Decoder Mode
0	0	0	Automatic, own intelligence, 2 Xtals
0	0	1	Forced Xtal pin 34, PAL/NTSC
0	1	0	Forced Xtal pin 34, PAL
0	1	1	Forced Xtal pin 34, NTSC
1	0	0	Forced Xtal pin 35, PAL/NTSC (Note c)
1	0	1	Forced Xtal pin 35, PAL
1	1	0	Forced Xtal pin 35, NTSC
1	1	1	Forced Xtal pin 35, SECAM

**Note c:** In this mode, the colour oscillator is forced to use one Xtal pin, while the decoder can select PAL or NTSC automatically.

**OPTION 02**

B7B6B5B4B3B2B1B0

B7 = Oso : 0 (Over-scan Switch-Off: 0= Switch-off undefined, 1= Switch-off in vertical overscan)

B6 = Vsd : 0 (Vertical Scan Disable: 0=Active Vertical Scan, 1= Disable Vertical Scan)

B5 = Cb : 0 (Chroma Band pass center frequency: 0= Centre frequency at Fsc (chroma sub-carrier frequency), 1= Center frequency at 1.1\*Fsc)

B4 = Bls : 0 (Blue Stretch: 0= Blue Stretch off, 1= Blue Stretch on)

B3 = Bks : 0 (Black Stretch: 0= Black Stretch off, 1= Black Stretch on)

B2 = Ie1 : X (Insertion Enable Fast blanking: 1= enable RGB insertion, 0= disable) (**don' t care**)

B1 = Afw : X (AFC Window around IF center frequency: 0= Nominal window, about 80 kHz wide; 1= Enlarged window, about 240 kHz wide) (**don' t care**)

B0 = Bb : 0 (Blue Background: 0= Normal operation, 1= Blue background active)

### OPTION 03

B7B6B5B4B3B2B1B0

B7 = Hob: Note1

B6 = Bps: 0 (Bypass chroma delay line: 0 Chroma delay line active, 1= Delay line bypassed)

B5 = Acl: X (Automatic Colour Limiting: 0= ACL not needed for standard burst/chroma transmissions; 1= ACL active, for non standard chroma-to-burst ratio) **(don' t care)**

B4 = Cmb: Note2

B3 = Ast: X (Abs-loop Start-up mode: 0=Automatic mode, RGB drive switches on when ABS loop stable; 1= Switch-on under control of micro controller) **(don' t care)**

B2 = CL2: 1 (Note3)

B1 = CL1: 1 (Note3)

B0 = CL0: 0 (Note3)

#### Note1:

0 = Pal+ helper output blanking disabled

1 = Pal+ helper output blanking enabled

#### Note2: Comb Filter

0 = Pin 33 Low, comb filter off

1 = Sub-carrier output pin 33 active, comb filter on

#### Note3:

CL2,CL1,CL0 bits: Cathode drive level:

CL2	CL1	CL0	Variation Cathode Drive Level
0	0	0	Minimum
0	0	1	+ 14 %
0	1	0	+ 28 %
0	1	1	+ 42 %
1	0	0	+ 57 %
1	0	1	+ 71 %
1	1	0	+ 85 %
1	1	1	+ 100 %

### OPTION 04

B7B6B5B4B3B2B1B0

B7 = lfs: X (If sensitivity: 0= Normal Sensitivity, 1= Maximum gain reduced by 20 dB (reduces the total gain range)) **(don' t care)**

B6 = Mod : X (Modulation standard: 0 = Negative Modulation, 1 = Positive Modulation, AM demodulated sound can be connected to pin 2) **(don' t care)**

B5 = VSW: X (Video Mute Switch : 0= Normal Operation, 1= IF Video signal switched off (pin 6 is forced to ground)) **(don' t care)**

B4 = Sm: X (Sound mute of internal FM demodulator: 0 = Normal Operation, 1 = Sound Muted) **(don' t care)**

B3 = Ds: 0 (Dynamic Skin Control: 1= on, 0= off)

B2 = Dsa: 0 (Dynamic Skin Control Angle: 1= 123 degrees, 0 = 118 degrees)

B1 = Fav: 0 (Fixed Audio Volume: 0= Volume controlled front-end or external audio output at pin 15, 1= Fixed front-end audio output at pin 15)

B0 = Lfa: X (Secam L1 Frequency Adjust: 0= Normal IF Frequency, 1 = IF Frequency shifted for L1 standard (align with IFPL) **(don' t care)**

### OPTION 05

B7B6B5B4B3B2B1B0

B7 = Avl: 0 (Automatic Volume Levelling: 1= active, 0= disabled)

B6 = Hbl: X (Wider Horizontal Blanking: 1= blank left+right edges, 0= normal blanking on H-flyback pulse) **(don' t care)**

B5 = Vim: X (Video Ident Mode: 1= Coupled to Source Switch, 0= to IF) **(don' t care)**

B4 = Gai: (Gain of luminance channel: 0= Normal gain of luminance channel (V27 =1Vblack-white) (When CTI is disabled), 1= High Gain for Luminance Input (When CTI is enabled) (V27=0.45Vpp))

B3 = Ncin: X (Vertical Divider Mode: 0=Normal operation of the vertical divider, 1 = Vertical divide switched to large search window) **(don' t care)**

B2 = Stm: X (Search Tuning Mode: 0= Normal operation, 1= Reduced Sensitivity of coincidence detector) **(don' t care)**

B1 = Vid: X (Video Ident Mode: 1= No influence, 0= IFI contols Ö1- loop) **(don' t care)**

B0 = Lbm: 0 (Long blanking mode: 0= Blanking adapted to standard (50 or 60 Hz), 1= Fixed blanking according 50 Hz standard)

### OPTION 06

B7B6B5B4B3B2B1B0

B7 = Hco: X (EHT Tracking mode: 0= EHT tracking only on vertical, 1 = EHT tracking on both vertical and East-West) **(don' t care)**

B6 = EVG: 0 (Enable Vertical Guard: 0= Only vertical guard detection (Output bit NDF), 1= Detection (NDF) and protection by blanking RGBout

B5 = SBL: X (Service Blanking: 0= No service blanking, 1= Service Blanking active) **(don' t care)**

B4 = Prd: X (Over-voltage protection input mode: 0= Only over-voltage detection (output bit XPR), 1= Over- voltage detection (XPR) and inhibit horizontal drive (protection)) **(don' t care)**

B3 = Sys: System: 0 = Only NTSC M System, 1 = NTSC M, PAL M, PAL N Systems available

B2 = Rbl: X (RGB Blanking: 0= Normal picture visible, 1= RGBout (pins 21, 20, 19) blanked) **(don' t care)**

B1 = Cor: X (Noise coring: 0= Noise coring off; 1= Noise coring on, reduce peaking function on small transients) **(don' t care)**

B0 = Aen: (Enable APS: 0= APS disabled >> Preset, 1= APS enabled >> No Preset)

**OPTION 07**

B7B6B5B4B3B2B1B0

B7 = PB: Note1

B6 = CC: Note2

B5 = L1: Note3

B4 = L0: Note3

B3 = CL: Note4

B2 = Comb: Note5

B1 = SVhs: Note6

B0 = AV: Note7

**Note1:**

PB: This bit enables or disables Program Blanking during program change

0=Blank On

1=Blank Off

**Note2:**

CC: This bit selects if Closed Caption available or not.

0=CC Not available

1=CC Available

**Note3:**

L1, L0 : These bits select menu language:

0, 0 = English

0, 1 = Spanish

1, 0 = French

1, 1 = Portuguese

**Note4:**

CL : This bit enables or disables Child Lock function.

0= Off

1= On (Active)

**Note5:**

Comb: This bit selects if Comb Filter is supported or not.

0=Not supported

1=Available

**Note6:**

SVhs: This bit selects if SVhs input is supported or not.

0=SVhs not supported

1=SVhs available

**Note7:**

AV: This bit selects if AV input is supported or not.

0=Not supported

1=Available

**OPTION 08**

B7B6B5B4B3B2B1B0

B7 = b7: Note1

B6 = b6: Note1

B5 = b5: Note1

B4 = b4: Note1

B3 = b3: Note1

B2 = b2: Note1

B1 = b1: Note1

B0 = b0: Note1

**Note1:**

PLL Tuner control 1 byte

		b7	b6	b5	b4	b3	b2	b1	b0
PHILIPS	UV1336/1316	1	0	0	0	1	1	1	0
SAMSUNG	TECC1040PG26A	1	0	0	0	1	1	1	0
THOMSON	CTT5050	1	0	0	0	1	1	1	0

**OPTION 09**

B7B6B5B4B3B2B1B0

B7 = b7: Note1

B6 = b6: Note1

B5 = b5: Note1

B4 = b4: Note1

B3 = b3: Note1

B2 = b2: Note1

B1 = b1: Note1

B0 = b0: Note1

**Note1:**

PLL Tuner control 2 low byte

		b7	b6	b5	b4	b3	b2	b1	b0
PHILIPS	UV1336/1316	0	0	0	0	1	0	0	1
SAMSUNG	TECC1040PG26A	0	0	0	0	0	0	0	1
THOMSON	CTT5050	0	0	0	0	0	0	1	1



**OPTION 10**

B7B6B5B4B3B2B1B0

B7 = b7: Note1

B6 = b6: Note1

B5 = b5: Note1

B4 = b4: Note1

B3 = b3: Note1

B2 = b2: Note1

B1 = b1: Note1

B0 = b0: Note1

**Note1:**

PLL Tuner control 2 mid byte

		b7	b6	b5	b4	b3	b2	b1	b0
PHILIPS	UV1336/1316	0	0	0	0	1	0	1	0
SAMSUNG	TECC1040PG26A	0	0	0	0	0	0	1	0
THOMSON	CTT5050	0	0	0	0	0	1	1	0

**OPTION 11**

B7B6B5B4B3B2B1B0

B7 = b7: Note1

B6 = b6: Note1

B5 = b5: Note1

B4 = b4: Note1

B3 = b3: Note1

B2 = b2: Note1

B1 = b1: Note1

B0 = b0: Note1

**Note1:**

PLL Tuner control 2 high byte

		b7	b6	b5	b4	b3	b2	b1	b0
PHILIPS	UV1336/1316	0	0	0	0	0	1	0	0
SAMSUNG	TECC1040PG26A	0	0	0	0	1	0	0	0
THOMSON	CTT5050	1	0	0	0	0	1	0	1

**OPTION 12**

B7B6B5B4B3B2B1B0

B7 = b7: Note1

B6 = b6: Note1

B5 = b5: Note1

B4 = b4: Note1

B3 = b3: Note1

B2 = b2: Note1

B1 = b1: Note1

B0 = b0: Note1

**Note1:**

PLL Tuner VHF LOW - VHF HIGH crossover low byte

		b7	b6	b5	b4	b3	b2	b1	b0
PHILIPS	UV1336/1316	1	1	0	0	0	0	0	0
SAMSUNG	TECC1040PG26A	0	0	0	0	0	0	0	0
THOMSON	CTT5050	0	0	0	0	0	0	0	0

**OPTION 13**

B7B6B5B4B3B2B1B0

B7 = b7: Note1

B6 = b6: Note1

B5 = b5: Note1

B4 = b4: Note1

B3 = b3: Note1

B2 = b2: Note1

B1 = b1: Note1

B0 = b0: Note1

**Note1:**

PLL Tuner VHF LOW - VHF HIGH crossover high byte

		b7	b6	b5	b4	b3	b2	b1	b0
PHILIPS	UV1336/1316	0	0	0	0	1	0	1	1
SAMSUNG	TECC1040PG26A	0	0	0	0	0	0	0	0
THOMSON	CTT5050	0	0	0	0	0	0	0	0

**OPTION 14**

B7B6B5B4B3B2B1B0

- B7 = b7: Note1
- B6 = b6: Note1
- B5 = b5: Note1
- B4 = b4: Note1
- B3 = b3: Note1
- B2 = b2: Note1
- B1 = b1: Note1
- B0 = b0: Note1

**Note1:**

PLL Tuner VHF HIGH - UHF crossover low byte

		b7	b6	b5	b4	b3	b2	b1	b0
PHILIPS	UV1336/1316	1	0	0	0	0	0	0	0
SAMSUNG	TECC1040PG26A	0	0	0	0	0	0	0	0
THOMSON	CTT5050	0	0	0	0	0	0	0	0

**OPTION 15**

B7B6B5B4B3B2B1B0

- B7 = b7: Note1
- B6 = b6: Note1
- B5 = b5: Note1
- B4 = b4: Note1
- B3 = b3: Note1
- B2 = b2: Note1
- B1 = b1: Note1
- B0 = b0: Note1

**Note1:**

PLL Tuner VHF HIGH - UHF crossover low byte

		b7	b6	b5	b4	b3	b2	b1	b0
PHILIPS	UV1336/1316	0	0	0	1	1	0	1	1
SAMSUNG	TECC1040PG26A	0	0	0	0	0	0	0	0
THOMSON	CTT5050	0	0	0	0	0	0	0	0

# GENERAL BLOCK DIAGRAM OF CHASSIS AK26

## ELECTRONIC COMPONENTS PART LIST

POS.NO	VESCODE	DESCRIPTION	POS.NO	VESCODE	DESCRIPTION
C055	30000109	CAP MKT 470NF 63V J	C813	30000411	CAP EL 4700UF 16V M
C056	30000109	CAP MKT 470NF 63V J	C814	30000375	CAP EL 220UF 16V M
C074	30000371	CAP EL 22UF 50V M	C816	30000295	CAP CER 100NF 50V Z F
C102	30000345	CAP EL 10UF 50V M	C817	30000359	CAP EL 1000UF 16V M
C112	30000109	CAP MKT 470NF 63V J	C819	30000295	CAP CER 100NF 50V Z F
C115	30000410	CAP EL 470UF 50V M	C822	30000295	CAP CER 100NF 50V Z F
C201	30000400	CAP EL 47UF 50V M	C823	30000383	CAP EL 2200UF 25V M
C203	30000353	CAP EL 100UF 25V M	C825	30000295	CAP CER 100NF 50V Z F
C204	30000345	CAP EL 10UF 50V M	C826	30000383	CAP EL 2200UF 25V M
C212	30000295	CAP CER 100NF 50V Z F	C827	30000433	CAP CER 1NF 1KV M B
C401	30000384	CAP EL 2.2UF 50V M	C828	30000359	CAP EL 1000UF 16V M
C402	30000345	CAP EL 10UF 50V M	C829	30000404	CAP EL 47UF 160V M (HR)
C403	30000074	CAP MKT 100NF 63V J	C830	30000295	CAP CER 100NF 50V Z F
C405	30000345	CAP EL 10UF 50V M	C831	30000198	CAP CER 120PF 500V J SL
C407	30000384	CAP EL 2.2UF 50V M	C832	30000295	CAP CER 100NF 50V Z F
C410	30000345	CAP EL 10UF 50V M	C833	30000444	CAP CER 470PF 1KV KB
C411	30000106	CAP MKT 47NF 100V J	C845	30000375	CAP EL 220UF 16V M
C413	30000375	CAP EL 220UF 16V M	C847	30000375	CAP EL 220UF 16V M
C415	30000092	CAP MKT 220NF 63V J	C848	30000353	CAP EL 100UF 25V M
C426	30000353	CAP EL 100UF 25V M	C850	30000433	CAP CER 1NF 1KV M B
C428	30000345	CAP EL 10UF 50V M	C851	30000433	CAP CER 1NF 1KV M B
C431	30000362	CAP EL 1UF 50V M	C853	30000290	CAP CER 10NF 50V Z F
C435	30000074	CAP MKT 100NF 63V J	C854	30000099	CAP MKT 33NF 63V J
C436	30000074	CAP MKT 100NF 63V J	C860	30000439	CAP CER 2.2NF 4KV M (UL)
C437	30000384	CAP EL 2.2UF 50V M	C901	30000075	CAP MKT 100NF 250V K (DC)
C440	30000345	CAP EL 10UF 50V M	C902	30000350	CAP EL 10UF 250V M
C449	30000387	CAP EL 33UF 50V M	C903	30000434	CAP CER 1NF 2KV K B
C482	30000413	CAP EL 4.7UF 50V M	C904	30000319	CAP CER 2.7NF 500V K B
C505	30000400	CAP EL 47UF 50V M	D201	30001284	DIODE 1N4148
C507	30000345	CAP EL 10UF 50V M	D408	30001347	DIODE ZENER 8.2V
C514	30000345	CAP EL 10UF 50V M	D420	30001284	DIODE 1N4148
C516	30000371	CAP EL 22UF 50V M	D430	30001344	DIODE ZENER 6.2V 1/2W
C517	30000345	CAP EL 10UF 50V M	D505	30001369	DIODE ZENER 3.6V ZPD
C519	30000099	CAP MKT 33NF 63V J	D506	30001284	DIODE 1N4148
C521	30000100	CAP MKT 330NF 63V J	D507	30001284	DIODE 1N4148
C522	30000099	CAP MKT 33NF 63V J	D508	30001284	DIODE 1N4148
C560	30000109	CAP MKT 470NF 63V J	D509	30001284	DIODE 1N4148
C570	30000345	CAP EL 10UF 50V M	D510	30001284	DIODE 1N4148
C580	30000345	CAP EL 10UF 50V M	D531	30001284	DIODE 1N4148
C601	30000387	CAP EL 33UF 50V M	D601	30001318	DIODE BA159
C604	30000106	CAP MKT 47NF 100V J	D602	30001284	DIODE 1N4148
C605	30000075	CAP MKT 100NF 250V K (DC)	D603	30001284	DIODE 1N4148
C606	30000388	CAP EL 33UF 160V M	D604	30001377	DIODE ZENER 33V UZT 33B
C607	30000407	CAP EL 470UF 16V M	D605	30001317	DIODE BA157
C608	30000323	CAP CER 33NF 50V K B	D606	30001317	DIODE BA157
C610	30000131	CAP MKP 100NF 250V J	D607	30001284	DIODE 1N4148
C611	30007100	CAP MKP 10NF 1600V %5	D608	30001284	DIODE 1N4148
C612	30000356	CAP EL 100UF 63V M	D609	30001317	DIODE BA157
C617	30000156	CAP MKP 430NF 250V J	D701	30001284	DIODE 1N4148
C618	30000394	CAP EL 3.3UF 160V M	D801	30001305	DIODE BYM56E
C632	30000360	CAP EL 1000UF 25V M	D802	30001305	DIODE BYM56E
C702	30000356	CAP EL 100UF 63V M	D803	30001305	DIODE BYM56E
C703	30000074	CAP MKT 100NF 63V J	D804	30001305	DIODE BYM56E
C704	30000109	CAP MKT 470NF 63V J	D805	30001318	DIODE BA159
C705	30000071	CAP MKT 10NF 63V J	D807	30001318	DIODE BA159
C706	30000092	CAP MKT 220NF 63V J	D811	30001315	DIODE BYD33D
C707	30000090	CAP MKT 22NF 100V J	D812	30001315	DIODE BYD33D
C709	30000074	CAP MKT 100NF 63V J	D813	30001315	DIODE BYD33D
C800	30000449	CAP CER 68PF 1KV KB	D814	30001307	DIODE BYW95A
C801	30000085	CAP MKT 150NF 275V MAC	D815	30001307	DIODE BYW95A
C802	30000085	CAP MKT 150NF 275V MAC	D816	30001301	DIODE BYM26D
C804	30000418	CAP EL 100UF 400V M	D818	30001318	DIODE BA159
C806	30000342	CAP CER 820PF 50V K B	D819	30001349	DIODE ZENER 11V
C807	30000074	CAP MKT 100NF 63V J	D823	30001284	DIODE 1N4148
C808	30000283	CAP CER 1NF 50V K B	D826	30001318	DIODE BA159
C811	30000161	CAP MKP 47NF 630V J	D827	30001318	DIODE BA159

## ELECTRONIC COMPONENTS PART LIST

POS.NO	VESCODE	DESCRIPTION	POS.NO	VESCODE	DESCRIPTION
D901	30001329	DIODE 1N4007	Q419	30001454	TR BC548B
D902	30001329	DIODE 1N4007	Q420	30001454	TR BC548B
D903	30001329	DIODE 1N4007	Q425	30001455	TR BC558B
F801	20000849	FUSE ASSY.TK79-A (3.15A)	Q426	30001454	TR BC548B
F801	35000138	FUSE HOLDER TK79A (BLACK)	Q500	30001454	TR BC548B
IC100	30001524	IC TDA2614	Q503	30001455	TR BC558B
IC401	30001575	IC TDA8842/N2	Q504	30001455	TR BC558B
IC501	30006718	IC SDA545X OTP	Q512	30001455	TR BC558B
IC502	30001610	IC ST24C08	Q514	30001454	TR BC548B
IC701	30001561	IC TDA8356	Q601	30001455	TR BC558B
IC751	30001476	IC Z86129	Q604	30001435	TR BC639
IC801	30007069	IC TCDT1102G	Q605	30001440	TR 2506DF
IC802	30001499	IC MC44604P	Q701	30001455	TR BC558B
IC804	30001622	IC 7805 (1A)	Q702	30001454	TR BC548B
IC805	30001492	IC LM7808	Q802	30001386	TR MTP6N60E
IC807	30001622	IC 7805 (1A)	Q805	30001454	TR BC548B
IC901	30001550	IC TDA6107Q/N1C	Q806	30001454	TR BC548B
JK102	30001884	RCA JACK 1P YELLOW	Q807	30001454	TR BC548B
JK103	30001882	RCA JACK 1P WHITE	Q809	30001506	IC TL431
JK104	30001877	JACK BAV W/STOPPER	Q810	30001384	TR MCR22-6
L201	30001979	FIXED COIL 1UH Q45 M-A	R610	30001125	RES MO 2W 2.2K J
L202	30001992	FIXED COIL 10UH Q65 K	R611	30001227	RES FUSE 1W 0.22R J
L203	30001992	FIXED COIL 10UH Q65 K	R620	30001082	RES MO 1/2W 1K J
L401	30001986	FIXED COIL 3.3UH Q65 K	R628	30001231	RES FUSE 27R 1/4W J
L402	30001986	FIXED COIL 3.3UH Q65 K	R630	30001082	RES MO 1/2W 1K J
L404	30001990	FIXED COIL 6.8UH Q75 K	R703	30000910	RES MF 1/2W 1.8R G
L405	30001992	FIXED COIL 10UH Q65 K	R704	30001210	RES FUSE 1/4W 100R J
L406	30001992	FIXED COIL 10UH Q65 K	R806	30007431	RES MO 5W 10K J
L501	30001990	FIXED COIL 6.8UH Q75 K	R817	30001260	RES WW 5W 2.2R J RAD.
L502	30001992	FIXED COIL 10UH Q65 K	R822	30001129	RES MO 22K 3W J
L503	30001992	FIXED COIL 10UH Q65 K	R823	30001037	RES MF 1/4W 99K F
L601	30001999	FIXED COIL 40UH (LOSS COIL)	R824	30000925	RES MF 1/4W 2.2K F
L603	30002149	LINEARITY COIL 50UH (06-06A)	R845	30001257	RES MG 1/2W 4.7M J
L605	30002011	COIL CHOKE 150UH 0.82 A RAD	R870	30001131	RES MO 1W 0.22R J
L751	30001992	FIXED COIL 10UH Q65 K	R904	30001210	RES FUSE 1/4W 100R J
L801	30001984	FIXED COIL 2.2UH Q55 M-AX	R914	30001242	RES FUSE 1/4W 47R J
L803	30002011	COIL CHOKE 150UH 0.82 A RAD	SW502	30002178	SWITCH TACT SKHHLU
LD501	30001279	LED RED/GREEN LTL293SJ	SW503	30002178	SWITCH TACT SKHHLU
MD501	30001670	PREAMPLIFIER TFMS5360	SW504	30002178	SWITCH TACT SKHHLU
PL050	30001783	CONN.MALE 5P (2005)	SW801	30002175	SWITCH ON/OFF 2.5A/100A
PL055	30001836	CONN MALE 3P TOP BLACK	TH801	30001270	PTC 9 OHM
PL056	30001838	CONN MALE 3P TOP YELLOW	TR601	30002090	LINE DRIVER NEW TYPE
PL058	30001837	CONN MALE 3P TOP BLUE	TR602	30002050	TRF FBT COMMON FOCUS 90° UL
PL100	30001762	CONN.MALE 2P (2052) GRAY	TR801	30002103	LINE FILTER 2*32MH (AK19)
PL102	30001843	CONN MALE 3P SIDE YELLOW	TR802	30002084	TRF SMPS AK19 90° (90-270V)
PL103	30001841	CONN MALE 3P SIDE BLACK	TU201	30001932	TUNER WSP (PLL) 45.75 NTSC
PL402	20003510	CABLE ASSY.19-5/45 FC RGB	X402	30001746	XTAL 3.582056 MHZ
PL501	30001764	CONN.MALE (2052) BLACK	X403	30001744	XTAL 3.575611 MHZ
PL601	30001827	HRZ VRT CONN.(4P)	X404	30001745	XTAL 3.579545
PL602	20003507	CABLE ASSY.19-4/45 FC (FL) UL	X501	30006662	XTAL 6MHZ
PL801	30001792	CONN.MALE 2P MOLEX	Z205	30001712	FILTER SER SFSH 4.5MCB
PL802	30001795	CONN.MALE 3P (DEG)	Z208	30001723	FILTER SER TRAP TPS 4.5 MHZ
PL900	30001858	SOCKET CRT IRICO	Z401	30001680	FILTER SAW M1962M
PL901	20003510	CABLE ASSY.19-5/45 FC RGB		20004208	BRACKET LED (8*17.5) 5X10
PL902	20003507	CABLE ASSY.19-4/45 FC (FL) UL		30002299	CABLE 4/45 FC (FL) WO/SOC UL
PL903	35000135	TEST PIN 1.1MM		30002301	CABLE 5/45FC (RGB AK19) WO/SO
Q057	30001454	TR BC548B		40000098	CABLE HOLDER 2.5*4P
Q100	30001454	TR BC548B		40000099	CABLE HOLDER 2.5*5P
Q401	30001454	TR BC548B		30001732	FUSE 3.15A 250V 5*20
Q402	30001454	TR BC548B		20000849	FUSE ASSY.TK79-A (3.15A)
Q406	30001454	TR BC548B		35000131	HEATSINK 11TP18 RGB
Q407	30001454	TR BC548B		35000114	HEATSINK 19-CRT BOARD
Q409	30001454	TR BC548B		35000115	HEATSINK 19-E/W
Q411	30001430	TR BF494		35000110	HEATSINK 20-HORIZONTAL
Q412	30001430	TR BF494		35000113	HEATSINK 20-REGULATOR
Q413	30001454	TR BC548B		35000111	HEATSINK 20-VERTICAL
Q414	30001430	TR BF494		35000466	HEATSINK SMPS AK20S
Q415	30001454	TR BC548B			

Press " Ctrl+F " to find any word on this page!

BILL OF MATERIAL LIST										
10003655			3731 TEAC TEAC EU-34TB(MET BLUE)(AK26)							
BOM Date : 05/09/2000										
NO	LEVEL	COMPONENT CODE	MATERIAL	UNIT	QTY	POSITION NUMBER				
1	1	20002569	EXP.KIT 08/20-FNL3745/55/30/31	PC	1,000	.	.	.	.	.
2	2	20004519	CABLE HOLDER CRT (I)	PC	1,000	.	.	.	.	.
3	3	60000018	COPOLYMER POLYPROPYLENE	KG	0,002	.	.	.	.	.
4	2	70000331	ADHESIVE TAPE 75MM/660M (4125)	M	1,386	.	.	.	.	.
5	1	20003517	POWER CORD ASSY.(2.2/AV TYPE)	PC	1,000	.	.	.	.	.
6	2	30001793	CONN.FEMALE 2P MLX	PC	1,000	.	.	.	.	.
7	2	30002386	POWER CORD 2.2MT AUST.TYPE	PC	1,000	.	.	.	.	.
8	1	20003568	SCART COVER WO/H (I)	PC	1,000	.	.	.	.	.
9	2	60000001	ABS (NATURAL)	KG	0,003	.	.	.	.	.
10	1	20004287	SNOW BOX ASSY.3730/31	PC	1,000	.	.	.	.	.
11	2	20004295	SNOW BOX ASSY.3745/55	PC	1,000	.	.	.	.	.
12	3	20004296	SNOW BOX-TOP 3745/55	PC	1,000	.	.	.	.	.
13	4	60000011	EPS	KG	0,127	.	.	.	.	.
14	3	20004297	SNOW BOX-BOTTOM 3745/55	PC	1,000	.	.	.	.	.
15	4	60000011	EPS	KG	0,127	.	.	.	.	.
16	2	40000089	SNOW BOX 145*320*16MM(3730/31)	PC	1,000	.	.	.	.	.
17	1	20015360	MD.ASY.26-FAV26	PC	1,000	.	.	.	.	.
18	2	30001841	CONN MALE 3P SIDE BLACK	PC	1,000	PL1003	.	.	.	.
19	2	30001843	CONN MALE 3P SIDE YELLOW	PC	1,000	PL1002	.	.	.	.
20	2	30001882	RCA JACK 1P WHITE	PC	1,000	JK1003	.	.	.	.
21	2	30001884	RCA JACK 1P YELLOW	PC	1,000	JK1002	.	.	.	.
22	2	30002220	CONN ASSY 3/10 SHL.D.C. BLK	PC	1,000	PL1003	.	.	.	.
23	2	30002269	CONN ASSY 3/36 SHL.D.C. YLW	PC	1,000	PL1002	.	.	.	.
24	2	30009646	PCB FAV20-1	PC	1,000	.	.	.	.	.

25	1	20015528	SCREW ASSY 3731 HP/FAV/BAV (1SP)	PC	1,000	.	.	.	.	.
26	2	35000212	SCREW S C ZNSY YSMB 2.9*13	PC	2,000	.	.	.	.	.
27	2	35000216	SCREW S C ZNSY YSMB 3.9*19	PC	5,000	.	.	.	.	.
28	2	35000224	SCREW C SK ZN YFMB 2.9*9.5	PC	1,000	.	.	.	.	.
29	2	35000231	SCREW SK C NI YFMB 2.9*6.5	PC	2,000	.	.	.	.	.
30	2	35001777	SCREWSCZNORYAKB 5x30 WITH RUBBER WASHER	PC	4,000	.	.	.	.	.
31	2	40000173	ISOLATION COTTON 71*78*0.5	PC	1,000	.	.	.	.	.
32	1	20018469	MD.ASY.26-TY02 KARTI	PC	1,000	.	.	.	.	.
33	2	20018472	MD.RAD.26-TY02 KARTI	PC	1,000	.	.	.	.	.
34	3	20018473	MD.AXI.26-TY02 KARTI	PC	1,000	.	.	.	.	.
35	4	20018474	MD.SEQ.26-TY02 KARTI	PC	1,000	.	.	.	.	.
36	5	30000980	RES MF 1/4W 470R J	PC	1,000	R1	.	.	.	.
37	4	30007611	pcb 11ty02	PC	1,000	.	.	.	.	.
38	5	60000047	CCL 1220*1020*1.6 FR2 V0 351	M2	0,001	.	.	.	.	.
39	3	30000444	CAP CER 470PF 1KV KB	PC	1,000	C1	.	.	.	.
40	2	30001155	RES MO 33K 2W J	PC	1,000	R2	.	.	.	.
41	2	30001320	DIODE GUC BY228	PC	1,000	D1	.	.	.	.
42	2	30001911	PIN F 4P/2.5MM (11.5MM)	PC	1,000	.	.	.	.	.
43	1	20019523	CRT KIT (14) AK26 WO/UL	PC	1,000	.	.	.	.	.
44	2	30002113	14 DEG COIL&EARTH CB.	PC	1,000	.	.	.	.	.
45	2	30007298	CONN.ASSY.4/45 R26 (HRZ&VER) IMPROVED	PC	1,000	.	.	.	.	.
46	2	35000014	EARTH SPRING (2CM)	PC	1,000	.	.	.	.	.
47	1	20019641	SPK.& HP08 A.3710/11/5/6/30/31 1SPK(AK26	PC	1,000	.	.	.	.	.
48	2	20000509	SPK.ASSY.3743/53/10/11 W/HP	PC	1,000	.	.	.	.	.
49	3	30001954	SPEAKER 16R 3W 3"	PC	1,000	.	.	.	.	.
50	2	20019639	MD.ASY.HP08-FTZ 3710/11/5/6/31(AK26)	PC	1,000	.	.	.	.	.
51	3	20019643	MD.RAD.HP08-2 FTZ	PC	1,000	.	.	.	.	.
52	4	20019644	MD.AXI.HP08-2 FTZ	PC	1,000	.	.	.	.	.
53	5	20015610	MD.SEQ.HP08-FTZ	PC	1,000	.	.	.	.	.

54	6	30001996	FIXED COIL 22UH Q40 K	PC	3,000	L01	L02	L03	.	.
55	5	30007183	PCB HP08-2	PC	1,000	.	.	.	.	.
56	4	30000330	CAP CER 4.7NF 50V K B	PC	1,000	C02	.	.	.	.
57	3	30001145	RES MO 1W 33R J	PC	1,000	R01	.	.	.	.
58	3	30001904	JACK HEADPHONE (STR-VERTICAL)	PC	1,000	JK01	.	.	.	.
59	3	30002252	CON.ASSY.2/30 R2.6 EXT.SP.GRAY	PC	1,000	PL01	.	.	.	.
60	3	30002276	CABLE 2/40 R2.6 (WO/SOCKET)	PC	1,000	PL02	.	.	.	.
61	1	20021396	FRONT 3731 W/H&J (CB) METAL.BLUE-7643(P)	PC	1,000	.	.	.	.	.
62	2	20021485	FRONT 3731 W/H&J (CB) GRAY(I)	PC	1,000	.	.	.	.	.
63	3	60000009	FR-HIPS NATR.V-0 6335	KG	0,761	.	.	.	.	.
64	3	60000138	MASTERBATCH (GRAY) %1	G	8,000	.	.	.	.	.
65	2	60000190	PAINT ALBA METALIC BLUE 022 7643	KG	0,030	.	.	.	.	.
66	1	20021434	LBL.BCK.CVR.TEAC EU- 34TB	PC	1,000	.	.	.	.	.
67	2	20013018	LBL.BCK.CVR.ASSY (TV) (WO/UL)	PC	1,000	.	.	.	.	.
68	3	50004065	LABEL LOT W/BARCODE (3)	PC	1,050	.	.	.	.	.
69	3	70000321	RIBBON T13506 ZA 110MM*335MM	PC	1,050	.	.	.	.	.
70	1	20021435	F CARTON BOX TEAC EU-34TB	PC	1,000	.	.	.	.	.
71	2	50006050	CARTON BOX 3745/55/43/10/11 CRF&TV EMPTY	PC	1,000	.	.	.	.	.
72	2	50007728	CARTON BOX TEAC EU- 34TB	PC	1,000	.	.	.	.	.
73	1	20021487	BACK CVR 3730/31 AK20(CB)MET.BLUE- 7643(P)	PC	1,000	.	.	.	.	.
74	2	20021486	BACK COVER 3730/31 AK20 (CB) GRAY(I)	PC	1,000	.	.	.	.	.
75	3	60000009	FR-HIPS NATR.V-0 6335	KG	0,999	.	.	.	.	.
76	3	60000138	MASTERBATCH (GRAY) %1	G	10,000	.	.	.	.	.
77	2	60000190	PAINT ALBA METALIC BLUE 022 7643	KG	0,030	.	.	.	.	.
78	1	20021488	BUTTON AS.3731(ALL/MET.BLUE-	PC	1,000	.	.	.	.	.



			7643)(WO/TS)							
79	2	20004332	LENS PRE-AMP 8*24.7MM (I)	PC	1,000	.	.	.	.	.
80	3	60000012	ACRYLIC DIACON CLG 356(SEFFAF)	G	2,550	.	.	.	.	.
81	2	20004646	FOOT RUBBER 3730/31/40/41	PC	2,000	.	.	.	.	.
82	3	60000040	THERMOPLASTIC RUBBER (BLACK)	KG	0,003	.	.	.	.	.
83	2	20021489	BUTTON ON/OFF 3731(ME.BLUE-7643/P)(WO/TS	PC	1,000	.	.	.	.	.
84	3	20006293	BUTTON ON/OFF 3731 GRAY (I)	PC	1,000	.	.	.	.	.
85	4	60000001	ABS (NATURAL)	KG	0,003	.	.	.	.	.
86	4	60000138	MASTERBATCH (GRAY) %1	G	0,050	.	.	.	.	.
87	3	60000190	PAINT ALBA METALIC BLUE 022 7643	KG	0,002	.	.	.	.	.
88	2	20021490	BUTTON FUNCTION 3731 (ME.BLUE-7643/P)	PC	1,000	.	.	.	.	.
89	3	20006295	BUTTON FUNCTION 3731 GRAY (I)	PC	1,000	.	.	.	.	.
90	4	60000001	ABS (NATURAL)	KG	0,008	.	.	.	.	.
91	4	60000138	MASTERBATCH (GRAY) %1	G	0,160	.	.	.	.	.
92	3	60000190	PAINT ALBA METALIC BLUE 022 7643	KG	0,002	.	.	.	.	.
93	2	35000013	SPRING ON/OFF SWITCH	PC	1,000	.	.	.	.	.
94	1	20021491	LENS 3731W/AV(-V+-P+)TEA.EU34TB(PN429C/S	PC	1,000	.	.	.	.	.
95	2	20000891	LENS 3731 W/AV (I)	PC	1,000	.	.	.	.	.
96	3	60000016	POLYCARBONAT GRAY (PC) (SMOK)	KG	0,031	.	.	.	.	.
97	1	20026124	CHS.ASSY.26-41433121122123	PC	1,000	.	.	.	.	.
98	2	20014412	CRT DIFF.KIT AK26-14/IRICO	PC	1,000	.	.	.	.	.
99	3	30000930	RES MF 1/4W 2.2R J	PC	1,000	R703	.	.	.	.
100	3	30001227	RES FUSE 1W 0.22R J	PC	1,000	R611	.	.	.	.
101	3	30001857	SOCKET CRT B12-262	PC	1,000	PL900	.	.	.	.
102	3	30007100	CAP MKP 10NF 1600V %3.5	PC	1,000	C611	.	.	.	.
103	2	20026125	CHS.WO/CRT.26-4143312112212X	PC	1,000	.	.	.	.	.

104	3	20026123	IC 24C16 0034451(AK26)	PC	1,000	.	.	.	.	.
105	4	30009005	IC 24C16	PC	1,000	.	.	.	.	.
106	3	20026126	M.ASSY.26-MAN 4143312112212X	PC	1,000	.	.	.	.	.
107	4	20014407	MB.MAN.26-COMMON	PC	1,000	.	.	.	.	.
108	5	20000954	HE.ASY.19-CRT BOARD	PC	1,000	.	.	.	.	.
109	6	30008721	IC TDA6108	PC	1,000	IC901	.	.	.	.
110	6	35000114	HEATSINK 19-CRT BOARD	PC	1,000	.	.	.	.	.
111	6	35000158	NUT C ZN BOTTOM M3	PC	1,000	.	.	.	.	.
112	6	35000165	KNURL WASHER C ZNSY 3*6*04 (M3)	PC	1,000	.	.	.	.	.
113	6	35000189	SCREW C NI YSMB M3*6	PC	1,000	.	.	.	.	.
114	5	20014932	HE.ASY.26-VERTICAL	PC	1,000	.	.	.	.	.
115	6	30001561	IC TDA8356	PC	1,000	IC701	.	.	.	.
116	6	35000158	NUT C ZN BOTTOM M3	PC	2,000	.	.	.	.	.
117	6	35000165	KNURL WASHER C ZNSY 3*6*04 (M3)	PC	2,000	.	.	.	.	.
118	6	35000189	SCREW C NI YSMB M3*6	PC	2,000	.	.	.	.	.
119	6	35000540	HEATSINK VERTICAL 11AK26	PC	1,000	.	.	.	.	.
120	6	70000074	SILICON (GRES)	KG	0,001	.	.	.	.	.
121	5	20014933	HE.ASY.26-HORIZONTAL	PC	1,000	.	.	.	.	.
122	6	30001440	TR 2506DF	PC	1,000	Q605	.	.	.	.
123	6	35000110	HEATSINK 20- HORIZONTAL	PC	1,000	.	.	.	.	.
124	6	35000158	NUT C ZN BOTTOM M3	PC	1,000	.	.	.	.	.
125	6	35000165	KNURL WASHER C ZNSY 3*6*04 (M3)	PC	1,000	.	.	.	.	.
126	6	35000190	SCREW C NI YSMB M3*10	PC	1,000	.	.	.	.	.
127	5	20014934	HE.ASY.26-REG	PC	1,000	.	.	.	.	.
128	6	30001500	IC LM7808	PC	1,000	IC805	.	.	.	.
129	6	30001622	IC 7805 (1A)	PC	2,000	IC804	IC807	.	.	.
130	6	35000113	HEATSINK 20- REGULATOR	PC	1,000	.	.	.	.	.
131	6	35000158	NUT C ZN BOTTOM M3	PC	3,000	.	.	.	.	.
132	6	35000165	KNURL WASHER C ZNSY 3*6*04 (M3)	PC	3,000	.	.	.	.	.
133	6	35000190	SCREW C NI YSMB M3*10	PC	3,000	.	.	.	.	.
134	5	20014935	HE.ASY.26-SOUND	PC	1,000	.	.	.	.	.
135	6	30001524	IC TDA2614	PC	1,000	IC100	.	.	.	.

136	6	35000111	HEATSINK 20-VERTICAL	PC	1,000	.	.	.	.	.
137	6	35000158	NUT C ZN BOTTOM M3	PC	1,000	.	.	.	.	.
138	6	35000165	KNURL WASHER C ZNSY 3*6*04 (M3)	PC	1,000	.	.	.	.	.
139	6	35000189	SCREW C NI YSMB M3*6	PC	1,000	.	.	.	.	.
140	5	30000075	CAP MKT 100NF 250V K (DC)	PC	2,000	C605	C901	.	.	.
141	5	30000131	CAP MKP 100NF 250V J	PC	1,000	C610	.	.	.	.
142	5	30000156	CAP MKP 430NF 250V J	PC	1,000	C617	.	.	.	.
143	5	30000161	CAP MKP 47NF 630V J	PC	1,000	C811	.	.	.	.
144	5	30000205	CAP CER 150PF 50V J SL	PC	1,000	CX02	.	.	.	.
145	5	30000283	CAP CER 1NF 50V K B	PC	1,000	CXX3	.	.	.	.
146	5	30000350	CAP EL 10UF 250V M	PC	1,000	C902	.	.	.	.
147	5	30000356	CAP EL 100UF 63V M	PC	2,000	C612	C702	.	.	.
148	5	30000359	CAP EL 1000UF 16V M	PC	2,000	C817	C828	.	.	.
149	5	30000360	CAP EL 1000UF 25V M	PC	1,000	C632	.	.	.	.
150	5	30000383	CAP EL 2200UF 25V M	PC	2,000	C826	C823	.	.	.
151	5	30000388	CAP EL 33UF 160V M	PC	1,000	C606	.	.	.	.
152	5	30000404	CAP EL 47UF 160V M (HR)	PC	1,000	C829	.	.	.	.
153	5	30000410	CAP EL 470UF 50V M	PC	1,000	C115	.	.	.	.
154	5	30000411	CAP EL 4700UF 16V M	PC	1,000	C813	.	.	.	.
155	5	30000418	CAP EL 100UF 400V M	PC	1,000	C804	.	.	.	.
156	5	30000447	CAP CER 4.7NF 4KV M E	PC	1,000	C860	.	.	.	.
157	5	30001125	RES MO 2W 2.2K J	PC	1,000	R610	.	.	.	.
158	5	30001129	RES MO 22K 3W J	PC	1,000	R822	.	.	.	.
159	5	30001260	RES WW 5W 2.2R J RAD.	PC	1,000	R817	.	.	.	.
160	5	30001270	PTC 9 OHM	PC	1,000	TH801	.	.	.	.
161	5	30001279	LED RED/GREEN LTL293SJ	PC	1,000	LD501	.	.	.	.
162	5	30001301	DIODE BYM26D	PC	1,000	D816	.	.	.	.
163	5	30001307	DIODE BYW95A	PC	2,000	D815	D814	.	.	.
164	5	30001315	DIODE BYD33D	PC	3,000	D811	D812	D813	.	.
165	5	30001499	IC MC44604P	PC	1,000	IC802	.	.	.	.
166	5	30001670	PREAMPLIFIER TFMS5360	PC	1,000	MD501	.	.	.	.
167	5	30001762	CONN.MALE 2P (2052) GRAY	PC	1,000	PL100	.	.	.	.
168	5	30001783	CONN.MALE 5P (2005)	PC	1,000	PL050	.	.	.	.
169	5	30001792	CONN.MALE 2P MOLEX	PC	1,000	PL801	.	.	.	.
170	5	30001795	CONN.MALE 3P (DEG)	PC	1,000	PL802	.	.	.	.
171	5	30001827	HRZ VRT CONN.(4P)	PC	1,000	PL601	.	.	.	.

172	5	30002011	COIL CHOKE 150UH 0.82A RAD	PC	2,000	L803	L605	.	.	.
173	5	30002051	TRF FBT COM.FOC.(AK19- AK20)90°	PC	1,000	TR602	.	.	.	.
174	5	30002090	LINE DRIVER NEW TYPE	PC	1,000	TR601	.	.	.	.
175	5	30002149	LINEARITY COIL 50UH (06-06A)	PC	1,000	L603	.	.	.	.
176	5	30002876	CABLE ASSY 1/25 AK19 EMC	PC	1,000	.	.	.	.	.
177	5	30007069	IC TCDDT1102G	PC	1,000	IC801	.	.	.	.
178	5	30009846	CABLE 0.6MM BLUE (4CM)	PC	1,000	A--->A	.	.	.	.
179	5	30013514	CABLE 5/45 FC (W/CABLE HOLDER)	PC	1,000	PL402	PL901	.	.	.
180	5	35000135	TEST PIN 1.1MM	PC	1,000	PL903	.	.	.	.
181	5	35000570	HEATSINK 26-E/W (POZÝSYONSUZ)	PC	1,000	.	.	.	.	.
182	4	20015358	MB.MAN.26-W/FTZ-EMC (TEAC)	PC	1,000	.	.	.	.	.
183	5	30000295	CAP CER 100NF 50V Z F	PC	1,000	CX01	.	.	.	.
184	5	30009846	CABLE 0.6MM BLUE (4CM)	PC	1,000	CAB2	.	.	.	.
185	5	30009849	CABLE 0.6MM BLUE (7CM)	PC	1,000	CAB1	.	.	.	.
186	5	35000058	SHIELD AK19 SIDE	PC	1,000	.	.	.	.	.
187	5	35000061	SHIELD AK19 (BOTTOM W/PVC)	PC	1,000	.	.	.	.	.
188	4	20017314	MB.MAN.26-FAV IN/BAV OUT	PC	1,000	.	.	.	.	.
189	5	30001836	CONN MALE 3P TOP BLACK	PC	1,000	PL055	.	.	.	.
190	5	30001837	CONN MALE 3P TOP BLUE	PC	1,000	PL058	.	.	.	.
191	5	30001838	CONN MALE 3P TOP YELLOW	PC	1,000	PL056	.	.	.	.
192	5	35001912	SHIELD AK26 (TOP)	PC	1,000	.	.	.	.	.
193	4	20017373	MB.MAN.26-SMPS 90- 270V 90°	PC	1,000	.	.	.	.	.
194	5	20000849	FUSE ASSY.TK79-A (3.15A)	PC	1,000	F801	.	.	.	.
195	6	30001732	FUSE 3.15A 250V 5*20	PC	1,000	.	.	.	.	.
196	6	35000138	FUSE HOLDER TK79A (BLACK)	PC	1,000	.	.	.	.	.
197	5	20014930	HE.ASY.26-SMPS 90-270V	PC	1,000	.	.	.	.	.

			(PLASTIK)								
198	6	30001386	TR MTP6N60E (PLASTIC)	PC	1,000	.	.	.	.	.	.
199	6	35000158	NUT C ZN BOTTOM M3	PC	1,000	.	.	.	.	.	.
200	6	35000165	KNURL WASHER C ZNSY 3*6*04 (M3)	PC	1,000	.	.	.	.	.	.
201	6	35000190	SCREW C NI YSMB M3*10	PC	1,000	.	.	.	.	.	.
202	6	35000541	HEATSINK SMPS 11AK26	PC	1,000	.	.	.	.	.	.
203	5	30001131	RES MO 1W 0.22R J	PC	1,000	R870	.	.	.	.	.
204	5	30001171	RES MO 2W 4.7K J	PC	2,000	R806	.	.	.	.	.
205	5	30001305	DIODE BYM56E	PC	4,000	D801	D802	D803	D804	.	.
206	5	30002103	LINE FILTER 2*32MH (AK19)	PC	1,000	TR801	.	.	.	.	.
207	5	30009045	TRF SMPS AK26 90° (90- 270V)	PC	1,000	TR802	.	.	.	.	.
208	4	20018367	MB.MAN.26-3710/30-31 CAB	PC	1,000	.	.	.	.	.	.
209	5	20004003	BRACKET LED HOLDER 3743	PC	1,000	.	.	.	.	.	.
210	6	60000008	HIPS (NATURAL)	KG	0,001	.	.	.	.	.	.
211	6	60000022	MASTERBATCH (BLACK)	KG	0,001	.	.	.	.	.	.
212	5	30002181	SWITCH TACT	PC	4,000	SW501	SW502	SW503	SW504	.	.
213	4	20018941	MB.MAN.26-SDA54XX TEAC-8PG-TXT-PLL	PC	1,000	.	.	.	.	.	.
214	5	20035466	PR.IC.26-545X TEAC	PC	1,000	.	.	.	.	.	.
215	6	30001862	SOCKET IC 52P (SHRINK)	PC	1,000	IC501	.	.	.	.	.
216	6	30006718	IC SDA545X OTP	PC	1,000	IC501	.	.	.	.	.
217	5	30000084	CAP MKT 150NF 275V M AC P=15	PC	2,000	C801	C802	.	.	.	.
218	5	30000201	CAP SMD 15PF 50V J (08*05)	PC	1,000	CX91	.	.	.	.	.
219	5	30006662	XTAL 6MHZ	PC	1,000	X501	.	.	.	.	.
220	5	30013513	CABLE 4/45 FC (FLAMAN) (W/CABLE HOLDER)	PC	1,000	PL602	PL902	.	.	.	.
221	4	20021209	MB.MAN.26- PALBG+NTSC PB	PC	1,000	.	.	.	.	.	.
222	5	30001575	IC TDA8842/N2	PC	1,000	IC401	.	.	.	.	.
223	5	30001683	FILTER SAW G1965M	PC	1,000	Z401	.	.	.	.	.
224	5	30001745	XTAL 3.579545	PC	1,000	X404	.	.	.	.	.
225	5	30001748	XTAL 4.433619 MHZ	PC	1,000	X401	.	.	.	.	.
226	5	30009637	TUNER WSP (PLL) 38.9 MK2 - BATCH	PC	1,000	TU201	.	.	.	.	.

227	4	20021458	MB.MAN.26-W/AUSTRALIA	PC	1,000	.	.	.	.	.
228	5	30002175	SWITCH ON/OFF 2.5A/100A	PC	1,000	SW801	.	.	.	.
229	4	20029778	MB.MAN.26-14" IRICO	PC	1,000	.	.	.	.	.
230	5	30002876	CABLE ASSY 1/25 AK19 EMC	PC	1,000	.	.	.	.	.
231	3	20026127	M.ASSY.26-OTO 4143312112212X	PC	1,000	.	.	.	.	.
232	4	20014319	MB.SMD.26-COMMON	PC	1,000	.	.	.	.	.
233	5	20014320	MB.RAD.26-COMMON	PC	1,000	.	.	.	.	.
234	6	20014322	MB.AXI.26-COMMON	PC	1,000	.	.	.	.	.
235	7	20014323	MB.SEQ.26-COMMON	PC	1,000	.	.	.	.	.
236	8	20014325	MB.JUM.26-COMMON	PC	1,000	.	.	.	.	.
237	9	30002583	JUMPER WIRE 0.6MM	G	15,750	R802	R803	R827	R825	J209
.	.	.	.	.	.	J143	J185	J110	J116	J170
.	.	.	.	.	.	J750	J121	J112	J184	J155
.	.	.	.	.	.	J120	J169	J111	J800	J210
.	.	.	.	.	.	J205	J207	J190	J191	J168
.	.	.	.	.	.	J171	J129	J208	J177	J153
.	.	.	.	.	.	J196	J128	J801	J194	J154
.	.	.	.	.	.	J225	J107	J193	J189	J188
.	.	.	.	.	.	J197	J198	J102	J226	J118
.	.	.	.	.	.	J158	J851	J850	J167	J228
.	.	.	.	.	.	J203	J187	J131	J157	J105
.	.	.	.	.	.	J173	J172	J104	J106	J114
.	.	.	.	.	.	J195	J166	J113	J127	J101
.	.	.	.	.	.	J175	J178	J179	J192	J125
.	.	.	.	.	.	J126	J130	J180	J152	J204
.	.	.	.	.	.	J103	J151	J150	J149	J176
.	.	.	.	.	.	J134	J124	J182	J136	J132
.	.	.	.	.	.	J123	J119	J133	J135	J181
.	.	.	.	.	.	J115	J146	J231	J117	J400
.	.	.	.	.	.	J174	J122	J137	J199	J200
.	.	.	.	.	.	J141	J142	J140	J139	J138
.	.	.	.	.	.	J450	S112	S114	J232	S602
.	.	.	.	.	.	J233	J234	J235	J237	S010
.	.	.	.	.	.	J238	J239	J240	J242	J243
.	.	.	.	.	.	J244	J100	C451	C452	J159
.	.	.	.	.	.	J160	.	.	.	.
238	8	30000459	RES CF 1/4W 100R J	PC	13,000	R202	R621	R432	R431	R714

.	.	.	.	.	.	R715	R407	R602	R907	R909
.	.	.	.	.	.	R908	R208	R209	.	.
239	8	30000466	RES CF 1/4W 1K J	PC	12,000	R716	R818	R807	R405	R554
.	.	.	.	.	.	R626	R605	R829	R809	J148
.	.	.	.	.	.	R092	R760	.	.	.
240	8	30000471	RES CF 1/4W 10K J	PC	6,000	R601	R871	R831	R813	R844
.	.	.	.	.	.	R572	.	.	.	.
241	8	30000495	RES CF 1/4W 1.2K J	PC	1,000	R587	.	.	.	.
242	8	30000500	RES CF 1/4W 12K J	PC	1,000	R711	.	.	.	.
243	8	30000519	RES CF 1/4W 150R J	PC	1,000	R812	.	.	.	.
244	8	30000525	RES CF 1/2W 1.5K J	PC	5,000	R906	R905	R903	R902	R901
245	8	30000526	RES CF 1/4W 1.5K J	PC	1,000	R815	.	.	.	.
246	8	30000531	RES CF 1/4W 15K J	PC	2,000	R849	R549	.	.	.
247	8	30000541	RES CF 1/4W 1.5M J	PC	1,000	R816	.	.	.	.
248	8	30000580	RES CF 1/4W 22R J	PC	2,000	R835	R705	.	.	.
249	8	30000594	RES CF 1/4W 22K J	PC	2,000	R810	R811	.	.	.
250	8	30000599	RES CF 1/4W 220K J	PC	1,000	R821	.	.	.	.
251	8	30000603	RES CF 1/2W 2.2M J (400V)	PC	1,000	R860	.	.	.	.
252	8	30000604	RES CF 1/4W 2.2M J	PC	1,000	R457	.	.	.	.
253	8	30000622	RES CF 1/4W 270R J	PC	1,000	R569	.	.	.	.
254	8	30000633	RES CF 1/4W 27K J	PC	2,000	R805	R451	.	.	.
255	8	30000660	RES CF 1/4W 3.3K J	PC	1,000	R707	.	.	.	.
256	8	30000706	RES CF 1/4W 47R J	PC	4,000	R836	R833	R402	R814	.
257	8	30000712	RES CF 1/4W 470R J	PC	1,000	R717	.	.	.	.
258	8	30000718	RES CF 1/4W 4.7K J	PC	3,000	R879	R832	R710	.	.
259	8	30000722	RES CF 1/2W 47K J	PC	1,000	R828	.	.	.	.
260	8	30000723	RES CF 1/4W 47K J	PC	1,000	R201	.	.	.	.
261	8	30000736	RES CF 1/4W 51R J	PC	1,000	R861	.	.	.	.
262	8	30000770	RES CF 1/4W 680R J	PC	1,000	R460	.	.	.	.
263	8	30000810	RES CF 1/4W 820R J	PC	2,000	R869	R868	.	.	.
264	8	30000815	RES CF 1/4W 8.2K J	PC	3,000	R834	R614	R619	.	.
265	8	30000837	RES CF 1/4W 9.1K J	PC	1,000	R615	.	.	.	.
266	8	30000925	RES MF 1/4W 2.2K F	PC	1,000	R824	.	.	.	.
267	8	30000949	RES MF 1/4W 3K G	PC	1,000	R706	.	.	.	.
268	8	30001037	RES MF 1/4W 99K F	PC	1,000	R823	.	.	.	.
269	8	30001082	RES MO 1/2W 1K J	PC	2,000	R630	R620	.	.	.
270	8	30001210	RES FUSE 1/4W 100R J	PC	2,000	R704	R904	.	.	.
271	8	30001231	RES FUSE 27R 1/4W J	PC	1,000	R628	.	.	.	.
272	8	30001242	RES FUSE 1/4W 47R J	PC	1,000	R914	.	.	.	.

273	8	30001257	RES MG 1/2W 4.7M J	PC	1,000	R845	.	.	.	.
274	8	30001284	DIODE 1N4148	PC	13,000	D608	D420	D509	D201	D823
.	.	.	.	.	.	D531	D607	D506	D507	D508
.	.	.	.	.	.	D701	D602	D603	.	.
275	8	30001317	DIODE BA157	PC	3,000	D606	D609	D605	.	.
276	8	30001318	DIODE BA159	PC	6,000	D805	D807	D827	D826	D601
.	.	.	.	.	.	D818	.	.	.	.
277	8	30001329	DIODE 1N4007	PC	3,000	D903	D902	D901	.	.
278	8	30001344	DIODE ZENER 6.2V 1/2W	PC	1,000	D430	.	.	.	.
279	8	30001347	DIODE ZENER 8.2V	PC	1,000	D408	.	.	.	.
280	8	30001349	DIODE ZENER 11V	PC	1,000	D819	.	.	.	.
281	8	30001369	DIODE ZENER 3.6V ZPD	PC	1,000	D505	.	.	.	.
282	8	30001377	DIODE ZENER 33V UZT 33B	PC	1,000	D604	.	.	.	.
283	8	30001979	FIXED COIL 1UH Q45 M-A	PC	1,000	L201	.	.	.	.
284	8	30001984	FIXED COIL 2.2UH Q55 M-AX	PC	1,000	L801	.	.	.	.
285	8	30001986	FIXED COIL 3.3UH Q65 K	PC	2,000	L402	L401	.	.	.
286	8	30001992	FIXED COIL 10UH Q65 K-A	PC	5,000	L502	L503	L405	L202	L203
287	7	30011691	PCB 11AK26-7	PC	1,000	.	.	.	.	.
288	6	30000071	CAP MKT 10NF 63V J	PC	1,000	C705	.	.	.	.
289	6	30000074	CAP MKT 100NF 63V J	PC	5,000	C403	C436	C435	C703	C709
290	6	30000090	CAP MKT 22NF 100V J	PC	1,000	C707	.	.	.	.
291	6	30000092	CAP MKT 220NF 63V J	PC	2,000	C415	C706	.	.	.
292	6	30000106	CAP MKT 47NF 100V J	PC	2,000	C604	C411	.	.	.
293	6	30000109	CAP MKT 470NF 63V J	PC	3,000	C704	C112	C560	.	.
294	6	30000198	CAP CER 120PF 500V J SL	PC	1,000	C831	.	.	.	.
295	6	30000283	CAP CER 1NF 50V K B	PC	1,000	C808	.	.	.	.
296	6	30000295	CAP CER 100NF 50V Z F	PC	7,000	C819	C825	C822	C816	C830
.	.	.	.	.	.	C832	C212	.	.	.
297	6	30000319	CAP CER 2.7NF 500V K B	PC	1,000	C904	.	.	.	.
298	6	30000323	CAP CER 33NF 50V K B	PC	1,000	C608	.	.	.	.
299	6	30000323	CAP CER 33NF 50V K B	PC	1,000	C853	.	.	.	.
300	6	30000342	CAP CER 820PF 50V K B	PC	1,000	C806	.	.	.	.
301	6	30000345	CAP EL 10UF 50V M	PC	9,000	C102	C402	C405	C514	C517
.	.	.	.	.	.	C410	C570	C204	C440	.
302	6	30000353	CAP EL 100UF 25V M	PC	1,000	C426	.	.	.	.
303	6	30000353	CAP EL 100UF 25V M	PC	1,000	C203	.	.	.	.
304	6	30000362	CAP EL 1UF 50V M	PC	1,000	C431	.	.	.	.



305	6	30000371	CAP EL 22UF 50V M	PC	4,000	C516	C074	C505	C580	.
306	6	30000375	CAP EL 220UF 16V M	PC	4,000	C847	C845	C814	C413	.
307	6	30000384	CAP EL 2.2UF 50V M	PC	3,000	C407	C437	C401	.	.
308	6	30000387	CAP EL 33UF 50V M	PC	2,000	C601	C449	.	.	.
309	6	30000394	CAP EL 3.3UF 160V M	PC	1,000	C618	.	.	.	.
310	6	30000400	CAP EL 47UF 50V M	PC	1,000	C201	.	.	.	.
311	6	30000407	CAP EL 470UF 16V M	PC	1,000	C607	.	.	.	.
312	6	30000413	CAP EL 4.7UF 50V M	PC	1,000	C482	.	.	.	.
313	6	30000433	CAP CER 1NF 1KV M B	PC	3,000	C851	C850	C827	.	.
314	6	30000434	CAP CER 1NF 2KV K B	PC	1,000	C903	.	.	.	.
315	6	30000444	CAP CER 470PF 1KV KB	PC	1,000	C833	.	.	.	.
316	6	30000449	CAP CER 68PF 1KV KB	PC	1,000	C800	.	.	.	.
317	6	30001384	TR MCR22-6	PC	1,000	Q810	.	.	.	.
318	6	30001435	TR BC639	PC	1,000	Q604	.	.	.	.
319	6	30001454	TR BC548B	PC	12,000	Q100	Q807	Q805	Q806	Q402
.	.	.	.	.	.	Q514	Q702	Q426	Q406	Q420
.	.	.	.	.	.	Q057	Q401	.	.	.
320	6	30001455	TR BC558B	PC	5,000	Q601	Q701	Q503	Q512	Q425
321	6	30001506	IC TL431	PC	1,000	Q809	.	.	.	.
322	6	30008805	CAP MKT 39NF 63V J	PC	1,000	C854	.	.	.	.
323	6	30008875	CAP MKT 100NF 63V J (KUTU)	PC	1,000	C807	.	.	.	.
324	5	30000189	CAP SMD 100PF 50V J (0805)	PC	4,000	C109	C448	C498	C803	.
325	5	30000220	CAP SMD 22PF 50V J (08*05)	PC	2,000	C421	C422	.	.	.
326	5	30000224	CAP SMD 220PF 50V J (08*05)	PC	3,000	C809	C207	C206	.	.
327	5	30000252	CAP SMD 47PF 50V J (08*05)	PC	3,000	C446	C447	C494	.	.
328	5	30000256	CAP SMD 470PF 50V J (0805)	PC	1,000	C495	.	.	.	.
329	5	30000268	CAP SMD 68PF 50V J (0805)	PC	1,000	C404	.	.	.	.
330	5	30000284	CAP SMD 1NF 50V K R (0805)	PC	7,000	C708	C107	C433	C434	C715
.	.	.	.	.	.	C490	C855	.	.	.
331	5	30000289	CAP SMD 10NF 50V K R (0805)	PC	1,000	C526	.	.	.	.
332	5	30000294	CAP SMD 100NF 50V K (0805)	PC	11,000	C510	C540	C424	C513	C427
.	.	.	.	.	.	C539	C538	C537	C211	C590
.	.	.	.	.	.	C530	.	.	.	.

333	5	30000300	CAP SMD 1.5NF 50V K	PC	3,000	C499	C060	C064	.	.
334	5	30000309	CAP SMD 2.2NF 50V K R	PC	1,000	C430	.	.	.	.
335	5	30000312	CAP SMD 22NF 50V K (0805)	PC	8,000	C108	C438	C412	C416	C417
.	.	.	.	.	.	C418	C425	C406	.	.
336	5	30000322	CAP SMD 3.3NF 50V K (0805)	PC	1,000	C423	.	.	.	.
337	5	30000332	CAP SMD 4.7NF 50V K (0805)	PC	1,000	C459	.	.	.	.
338	5	30000334	CAP SMD 47NF 50V K (0805)	PC	2,000	C450	C409	.	.	.
339	5	30000336	CAP SMD 5.6NF 50V K (0805)	PC	1,000	C439	.	.	.	.
340	5	30000457	RES SMD 1/10W 10R J 0805	PC	1,000	R104	.	.	.	.
341	5	30000464	RES SMD 1/10W 100R J	PC	2,000	R582	R580	.	.	.
342	5	30000469	RES SMD 1/10W 1K J 0805	PC	14,000	R502	R503	R708	R401	R507
.	.	.	.	.	.	R500	R700	R543	R571	R437
.	.	.	.	.	.	R765	R064	R761	R762	.
343	5	30000475	RES SMD 1/10W 10K J 0805	PC	17,000	R546	R709	R487	R597	R578
.	.	.	.	.	.	R595	R564	R596	R524	R534
.	.	.	.	.	.	R552	R581	R433	R488	R594
.	.	.	.	.	.	R086	C077	.	.	.
344	5	30000475	RES SMD 1/10W 10K J 0805	PC	1,000	R203	.	.	.	.
345	5	30000480	RES SMD 1/10W 100K J (0805)	PC	5,000	R446	R479	R107	R494	R586
346	5	30000489	RES SMD 1/10W 1R J (0805)	PC	1,000	R449	.	.	.	.
347	5	30000499	RES SMD 1/10W 1.2K J (0805)	PC	1,000	R461	.	.	.	.
348	5	30000503	RES SMD 1/10W 12K J (0805)	PC	3,000	R574	R561	R200	.	.
349	5	30000524	RES SMD 1/10W 150R J (0805)	PC	4,000	R429	R752	R756	R758	.
350	5	30000534	RES SMD 1/10W 15K J (0805)	PC	2,000	R454	R613	.	.	.
351	5	30000550	RES SMD 1/10W 160K J	PC	1,000	R456	.	.	.	.
352	5	30000563	RES SMD 1/10W 1.8K J (0805)	PC	3,000	R498	R566	R463	.	.
353	5	30000571	RES SMD 1/10W 180K J (0805)	PC	1,000	R850	.	.	.	.
354	5	30000588	RES SMD 1/10W 220R J 0805	PC	3,000	R618	R559	R560	.	.

355	5	30000593	RES SMD 1/10W 2.2K J (0805)	PC	3,000	R538	R537	R539	.	.
356	5	30000597	RES SMD 1/10W 22K J	PC	2,000	R213	R101	.	.	.
357	5	30000602	RES SMD 1/10W 220K J 0805	PC	1,000	R617	.	.	.	.
358	5	30000631	RES SMD 1/10W 2.7K J 0805	PC	4,000	R450	R583	R591	R593	.
359	5	30000644	RES SMD 1/10W 3K J (0805)	PC	3,000	R528	R529	R530	.	.
360	5	30000659	RES SMD 1/10W 330R J (0805)	PC	2,000	R426	R403	.	.	.
361	5	30000688	RES SMD 1/10W 390R J (0805)	PC	1,000	R404	.	.	.	.
362	5	30000696	RES SMD 1/10W 39K J (0805)	PC	1,000	R459	.	.	.	.
363	5	30000710	RES SMD 1/10W 47R J (0805)	PC	3,000	R103	R419	R075	.	.
364	5	30000717	RES SMD 1/10W 470R J (0805)	PC	4,000	R400	R588	R599	R600	.
365	5	30000721	RES SMD 1/10W 4.7K J	PC	3,000	R527	R542	R486	.	.
366	5	30000727	RES SMD 1/10W 47K J (0805)	PC	1,000	R100	.	.	.	.
367	5	30000732	RES SMD 1/10W 470K J	PC	1,000	R458	.	.	.	.
368	5	30000735	RES SMD 1/10W 4.7R J (0805)	PC	1,000	R418	.	.	.	.
369	5	30000747	RES SMD 1/10W 560R J (0805)	PC	4,000	R102	R590	R592	R598	.
370	5	30000755	RES SMD 1/10W 56K J	PC	1,000	R106	.	.	.	.
371	5	30000774	RES SMD 1/10W 680R J (0805)	PC	1,000	R068	.	.	.	.
372	5	30000778	RES SMD 1/10W 6.8K J 0805	PC	1,000	R462	.	.	.	.
373	5	30000797	RES SMD 1/10W 75R J (0805)	PC	1,000	R428	.	.	.	.
374	5	30000797	RES SMD 1/10W 75R J (0805)	PC	2,000	R477	R417	.	.	.
375	5	30001734	JUMPER SMD (0805)	PC	22,000	S203	S412	S201	S420	J215
.	.	.	.	.	.	J224	J220	J222	J223	J221
.	.	.	.	.	.	J211	J212	J214	J217	J218
.	.	.	.	.	.	J213	R441	R616	J165	J241
.	.	.	.	.	.	C419	S415	.	.	.
376	4	20014374	MB.SMD.26-SDA54XX TEAC	PC	1,000	.	.	.	.	.
377	5	20014375	MB.RAD.26-SDA54XX TEAC	PC	1,000	.	.	.	.	.

378	6	20014376	MB.AXI.26-SDA54XX TEAC	PC	1,000	.	.	.	.	.
379	7	20014377	MB.SEQ.26-SDA54XX TEAC	PC	1,000	.	.	.	.	.
380	8	30000471	RES CF 1/4W 10K J	PC	1,000	R808	.	.	.	.
381	6	30000099	CAP MKT 33NF 63V J	PC	1,000	C519	.	.	.	.
382	5	30000189	CAP SMD 100PF 50V J (0805)	PC	1,000	C508	.	.	.	.
383	5	30000237	CAP SMD 33PF 50V J (08*05)	PC	2,000	C524	C525	.	.	.
384	5	30000289	CAP SMD 10NF 50V K R (0805)	PC	1,000	C506	.	.	.	.
385	5	30000484	RES SMD 1/10W 1M J (0805)	PC	1,000	R584	.	.	.	.
386	5	30000631	RES SMD 1/10W 2.7K J 0805	PC	1,000	R540	.	.	.	.
387	5	30000636	RES SMD 1/10W 27K J 0805	PC	1,000	R547	.	.	.	.
388	5	30001734	JUMPER SMD (0805)	PC	1,000	S502	.	.	.	.
389	4	20014942	MB.SMD.26-TELETEXT	PC	1,000	.	.	.	.	.
390	5	20014943	MB.RAD.26-TELETEXT	PC	1,000	.	.	.	.	.
391	6	20014945	MB.AXI.26-TELETEXT	PC	1,000	.	.	.	.	.
392	7	20014946	MB.SEQ.26-TELETEXT	PC	1,000	.	.	.	.	.
393	8	30001284	DIODE 1N4148	PC	1,000	D510	.	.	.	.
394	8	30001992	FIXED COIL 10UH Q65 K- A	PC	1,000	L406	.	.	.	.
395	6	30000100	CAP MKT 330NF 63V J	PC	1,000	C521	.	.	.	.
396	6	30000345	CAP EL 10UF 50V M	PC	1,000	C428	.	.	.	.
397	6	30001454	TR BC548B	PC	1,000	Q415	.	.	.	.
398	5	30000469	RES SMD 1/10W 1K J 0805	PC	1,000	R448	.	.	.	.
399	5	30000558	RES SMD 1/10W 180R J	PC	1,000	R465	.	.	.	.
400	5	30000626	RES SMD 1/10W 270R J	PC	1,000	R447	.	.	.	.
401	4	20017309	MB.SMD.26-FAV IN/BAV OUT	PC	1,000	.	.	.	.	.
402	5	20017310	MB.RAD.26-FAV IN/BAV OUT	PC	1,000	.	.	.	.	.
403	6	20017311	MB.AXI.26-FAV IN/BAV OUT	PC	1,000	.	.	.	.	.
404	7	20017312	MB.SEQ.26-FAV IN/BAV OUT	PC	1,000	.	.	.	.	.
405	8	20017313	MB.JUM.26-FAV IN/BAV OUT	PC	1,000	.	.	.	.	.
406	9	30002583	JUMPER WIRE 0.6MM	G	0,125	S055	.	.	.	.
407	5	30001734	JUMPER SMD (0805)	PC	1,000	S053	.	.	.	.

408	4	20018370	MB.SMD.26-3710/30-31 CAB	PC	1,000	.	.	.	.	.
409	5	30001734	JUMPER SMD (0805)	PC	2,000	S512	S513	.	.	.
410	4	20021204	MB.SMD.26-PALBG+NTSC PB	PC	1,000	.	.	.	.	.
411	5	20021205	MB.RAD.26-PALBG+NTSC PB	PC	1,000	.	.	.	.	.
412	6	20021206	MB.AXI.26-PALBG+NTSC PB	PC	1,000	.	.	.	.	.
413	7	20021207	MB.SEQ.26-PALBG+NTSC PB	PC	1,000	.	.	.	.	.
414	8	20021208	MB.JUM.26-PALBG+NTSC PB	PC	1,000	.	.	.	.	.
415	9	30002583	JUMPER WIRE 0.6MM	G	0,250	D402	D405	.	.	.
416	8	30001284	DIODE 1N4148	PC	2,000	D503	D504	.	.	.
417	8	30001990	FIXED COIL 6.8UH Q75 K	PC	1,000	L403	.	.	.	.
418	6	30001454	TR BC548B	PC	1,000	Q407	.	.	.	.
419	6	30001716	FILTER SER 5.5MHZ SFE 5.5MB	PC	1,000	Z204	.	.	.	.
420	6	30001724	FILTER SER TRAP TPS 5.5MHZ	PC	1,000	Z209	.	.	.	.
421	5	30000499	RES SMD 1/10W 1.2K J (0805)	PC	1,000	R421	.	.	.	.
422	5	30000593	RES SMD 1/10W 2.2K J (0805)	PC	1,000	R420	.	.	.	.
423	5	30000668	RES SMD 1/10W 33K J 0805	PC	1,000	R492	.	.	.	.
424	5	30000710	RES SMD 1/10W 47R J (0805)	PC	1,000	R422	.	.	.	.
425	5	30000727	RES SMD 1/10W 47K J (0805)	PC	1,000	R485	.	.	.	.
426	5	30000755	RES SMD 1/10W 56K J	PC	1,000	R548	.	.	.	.
427	5	30001734	JUMPER SMD (0805)	PC	1,000	R478	.	.	.	.
428	4	20028400	MB.SMD.26-14" IRICO	PC	1,000	.	.	.	.	.
429	5	20028401	MB.RAD.26-14" IRICO	PC	1,000	.	.	.	.	.
430	6	20028402	MB.AXI.26-14" IRICO	PC	1,000	.	.	.	.	.
431	7	20028403	MB.SEQ.26-14" IRICO	PC	1,000	.	.	.	.	.
432	8	30000551	RES CF 1/4W 18R J	PC	1,000	R702	.	.	.	.
433	4	20031404	MB.SMD.26-SMPS 90-270V 90°	PC	1,000	.	.	.	.	.
434	5	20031405	MB.RAD.26-SMPS 90-270V 90°	PC	1,000	.	.	.	.	.
435	6	20031406	MB.AXI.26-SMPS 90-270V 90°	PC	1,000	.	.	.	.	.

436	7	20031407	MB.SEQ.26-SMPS 90-270V 90°	PC	1,000	.	.	.	.	.
437	8	20031408	MB.JUM.26-SMPS 90-270V 90°	PC	1,000	.	.	.	.	.
438	9	30002583	JUMPER WIRE 0.6MM	G	0,250	S812	S813	.	.	.
439	6	30000353	CAP EL 100UF 25V M	PC	1,000	C848	.	.	.	.
440	3	20031047	MD.ASY.BAV20-BAV OUT AK26 (TEAC)	PC	1,000	.	.	.	.	.
441	4	20011393	PCB BAV20-1	PC	1,000	.	.	.	.	.
442	5	60000047	CCL 1220*1020*1.6 FR2 V0 351	M2	0,009	.	.	.	.	.
443	4	30000205	CAP CER 150PF 50V J SL	PC	1,000	CX11	.	.	.	.
444	4	30001837	CONN MALE 3P TOP BLUE	PC	1,000	PL1004	.	.	.	.
445	4	30001877	JACK BAV W/STOPPER	PC	1,000	JK1004	.	.	.	.
446	4	30002222	CONN ASSY 3/10 SHL.D.C. BLU	PC	1,000	PL1004	.	.	.	.
447	4	35000028	BRACKET BAV (14")	PC	1,000	.	.	.	.	.
448	4	35000202	SCREW S C ZN YHDB 2.9*9.5	PC	1,000	.	.	.	.	.
449	1	20026587	ARTWORK TEAC TEAC EU-34TB (AK26)	PC	1,000	.	.	.	.	.
450	2	20025237	R/C 2042 TEAC RC- 772(M.BLUE-7643/P)(ÖZ/S	PC	1,000	.	.	.	.	.
451	3	30008755	R/C 2042 NB(WHITE/S) (MET.BLUE-7643/P)	PC	1,000	.	.	.	.	.
452	2	30000001	ANTENNA ROD (W/ADAPTOR)	PC	1,000	.	.	.	.	.
453	2	30002391	BATTERY AAA UM4 1.5V GREEN	PC	2,000	.	.	.	.	.
454	2	50007189	I/B TEAC EU34TB PLL/54XX/2040/ENG(26)	PC	1,000	.	.	.	.	.
455	2	50016146	WARRANTY CARD TEAC (ENG) (2)	PC	1,000	.	.	.	.	.
456	1	30001999	FIXED COIL 40UH (LOSS COIL)	PC	1,000	.	.	.	.	.
457	1	30007058	14" CPT TUBE - AUSTRALIA	PC	1,000	.	.	.	.	.
458	1	40000113	PLASTIZOTE BAG (14)	PC	1,000	.	.	.	.	.
459	1	40001938	LOGO TEAC (SMALL)(GRAY W/P)	PC	1,000	.	.	.	.	.
460	1	50008587	LBL.SCREEN TEAC EU- 34TB FAS/TOPTXT	PC	1,000	.	.	.	.	.
461	1	50015845	LBL.SERVICE TEAC (2)	PC	1,000	.	.	.	.	.



